

# Playback

Monthly Newsletter

January 1994

Volume 4, Number 1

## Inside this Issue:

Executive Commentary

### The Marketing of MII

Technical Tip

### Why Change Your Heads?

Open Letter

### Potential MII Head Group Buy

Setting the Record Straight

### Battery Memory

Special Article

### MII Specs for Bid Writing

News Brief

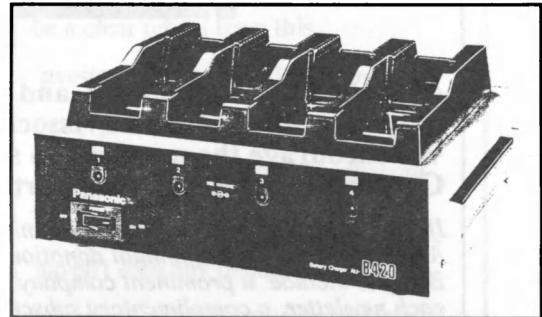
### New Line of MII to be announced

Current Survey

### Battery Performance

For Sale and Wanted

### MII Trading Post



*The AU-B420 battery charger (above) and AU-BP220 battery packs (below) have been the subject of much discussion over the past several months. Inside, Panasonic addresses battery memory and proper care and maintenance of these units.*



# MII

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**MII Playback** is a monthly newsletter published by the MII Users Association for the benefit of the members.

*Executive Director* David R. Gardy  
*Publications Editor* Jennifer L. Beers

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The MII Users Association can be contacted at:

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# The Marketing of MII

When our association was founded, there was a range of issues which concerned MII users. From service to training to communication with the manufacturer, the MII users and Panasonic committed to working diligently to meet user needs. But one of the major reasons that the association evolved was that the users wanted a voice in how the MII format was marketed and advertised. It was our contention at the time that we should have such a voice because our success with the format was directly linked to the format's growth and acceptance in the market. MII was Matsushita's first major foray at competing with Sony in the broadcast market. The NBC acquisition of the MII format gave it the boost it needed towards that end.

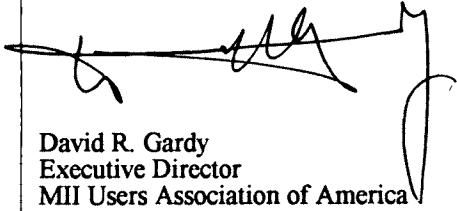
The quality of MII and the users' belief in the format gave it the credibility it needed to be competitive. But mass broadcast market acceptance would still hinge upon successful marketing. Without that marketing, advertising, and industry presence, the users felt that MII would never achieve "population parity" with Betacam, thus potentially affecting our collective livelihood.

Through the years, we have endeavored to work with Panasonic towards resolving many issues. We now have the best service program in the business. Continued commitment to the format by Panasonic is leading to the introduction of yet another series in the MII line. (See article in this issue.) But despite all of these accomplishments, the users never made a dedicated effort to voice our opinions on how MII should be marketed and advertised. With the format wars kicking into high gear, it is now that we must act.

From now until NAB, we will be soliciting ideas from our membership on this issue. Our goal will be to present an effective market strategy to Panasonic based on our experience as users in the front lines of the battle. At our NAB meeting in Las Vegas, we will meet with Panasonic representatives from both the U.S. and Japan to outline the specifics of our ideas.

The value of such input to the manufacturer is without question. But the point that we will be driving home is that to make any new major MII marketing effort work, a financial and resource commitment

from the manufacturer will be required. Perhaps this will be hard for Panasonic to do in an era of budget constraints, but failure to act now during the current volatility in the market could hurt MII sales. There is no question that there will be a clear return from this investment! I can't tell you how many potential buyers call our association, interested in purchasing MII, but concerned because they haven't seen any major marketing or advertising of the format in the last year. (The recent animation ad was great, but we need many more like it!) Panasonic's commitment to the format is unquestioned! The users belief in the format's quality is a matter of record! But the industry needs to know this! Expanding the advertising and marketing budget is critical to accomplishing this. Our phones lines are open. Let the membership speak.



David R. Gardy  
Executive Director  
MII Users Association of America

# The Association needs your 1993-1994 membership dues!!!!

*This form and a \$25.00 fee are required to continue membership in the association and receive this monthly newsletter. Please don't hesitate. (Thanks to the many who have*

**already sent in their membership fees!)** We have tried to make this form as simple as possible. Please take

take the time to fill it out now. We would appreciate it if you would take a few extra minutes to provide the information in the "optional" section so that we may better serve the association. This form and your \$25.00 dues must be returned *immediately*.

*Make checks payable to the MII Users Association of America. Return to: MII Users Association of America, c/o Gardy-McGrath (Int'l), Inc., 1950 Roland Clarke Place, Reston, VA 22091. Phone (703) 620-6000, fax (703) 620-0451.*

## Membership Registration Form

Date: \_\_\_\_\_

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### *Optional:*

How did you hear about the association? \_\_\_\_\_

Check all that apply: Duplication facility (List additional formats below) \_\_\_\_\_ MII Rental Facility \_\_\_\_\_

MII User \_\_\_\_\_ MII Owner \_\_\_\_\_ MII Dealer \_\_\_\_\_ MII Repair Center \_\_\_\_\_ Other \_\_\_\_\_

If you own MII, how long have you had it? \_\_\_\_\_

What model numbers? \_\_\_\_\_

If you do not own MII, are you planning to get it? \_\_\_\_\_

Additional Comments/Equipment: \_\_\_\_\_  
\_\_\_\_\_  
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Check number: \_\_\_\_\_ Name on Check: \_\_\_\_\_ Date: \_\_\_\_\_

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*Dues cover the period from Sept. 1, 1993 through Sept. 1, 1994. Below is for office use only.*

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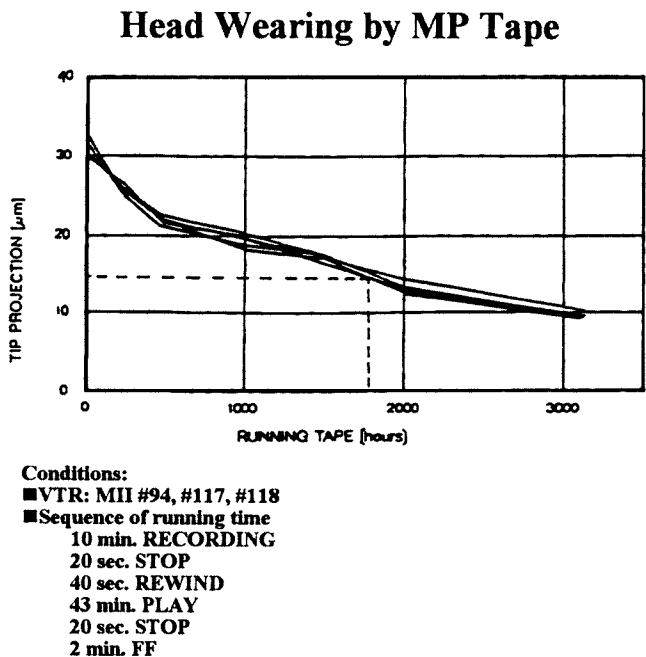
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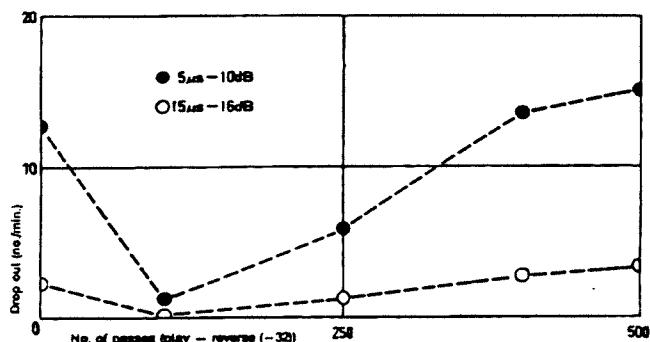
# Why Change Your Heads?

David Linetsky

The MII format has been in use for many years. The question often asked when comparing the original AU-650 and AU-660 VTRs to the current AU-65 series is why there would be a difference in head life of the upper drum.



**Drop Out**  
MII tape uses a special magnetic powder and surface processing for favorable drop cut characteristics.



**Conditions:**

Input signal	PAL color bar
Input terminal	Line input
Output terminal	Playback amplifier output
Drop out time	Min. 15 µsec.
Drop out level	Min. -16 dB

In normal operation, the AU-65 has an average life of 3000 hours while the AU-650 averages 2000 hours. The heads should be replaced when the head tip protrusion measures no less than 15 microns. The enclosed graph illustrates head tip wear versus the number of hours on the heads when in use under ideal conditions. If air conditions are poor, heads will wear more rapidly. The rate at which heads wear also decreases as the heads wear.

When comparing the AU-650 to the AU-65, the first point of consideration should be the difference in machine features and capabilities. There are also manufacturing differences between these units in the construction of the head. The AU-650 is a full-featured VTR that can be used for editing as well as for slow motion playback. The AU-65 has fixed heads; therefore, there is no AT capability. AT heads, which are in constant movement, will wear faster than fixed heads.

Following are a few guidelines for keeping the units up to specifications. Keep the tape path clean from tape residue. The amount of this residue depends on the cleanliness and condition of the tapes used. The enclosed graph shows how drop outs are influenced by tape condition. The tape must have a few passes before the drop out rate decreases; however, the tape will wear out with many passes. The upper drums should be changed on the AU-650/660 every 2000 hours. Full drums should be changed every 6000 hours to ensure proper operation of the AT and for good overall tape path. Lower drum wear over time will cause tape instability. Owners of the AU-65 series machines should plan to change their upper drums every 3000 hours with full drum changes every 6000 hours.

The machines would be virtually interchangeable in an edit suite that contained all AU-650s. Even though replacement parts for the AU-650 are higher in cost, due to the complexity of the drum assembly, many users are willing to accept this in exchange for the features. When a machine's performance is less than satisfactory, the user should consider the advantages of refurbishment.

If the existing unit is not refurbished, the user is faced with purchasing one or more of the AU-65 series machines to replace a single AU-650/660. With proper maintenance, all MII studio VTRs will continue to perform for many years.

*David Linetsky is the service manager of Specialized Communications in Hagerstown, Maryland.*

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you should see  
them in motion.

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## Potential Group Buy for MII Replacement Heads

*Buy in bulk, save money. You can do it with food, paper towels, light bulbs . . . why not upper and lower head drums? Lloyd Reed, Chairman of the original MII Users Subcommittee, came up with the idea of organizing a "group buy" of MII heads. He has been in communication with Panasonic about the possibility of obtaining a discount on MII heads for older machines by buying in bulk. Once Lloyd has a commitment from a number of MII Users to buy heads, the association can place a large order to Panasonic and receive a discount that we can pass along to those users. Interested in joining other MII users in saving money through a group buy? Read Lloyd's letter and contact him about further details.*

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### AN OPEN LETTER TO TRIPLE DIGIT SERIES MII USERS

January 1994

Panasonic's Bart Kulesz has approved, in principle, a discounted group buy for triple series heads, upper and lower drums.

We are also encouraging Licensed Panasonic Service Centers to participate in a special rate for installing them.

At this point, the size of the discount promised is "Substantial."

We must now find a "magic number" of units to empower the "Substantial" discount rate.

Let us know how many heads you would like to buy at a "Substantial" group rate discount, and what you would consider a "Substantial" discount.

We need to know by or at the MII Users Association meeting in Las Vegas at NAB.

If you have an opinion and can't attend the meeting, contact me at (703) 385-5830/FAX (703) 385-5984 or write to me at the above address.

If you have a last minute opinion and can't make the MII Users Association meeting, please drop it off at the MII Users Association's booth, #17277.

Thanks,

*Lloyd Reed*

Lloyd Reed  
Chairman, Original Users Group Subcommittee

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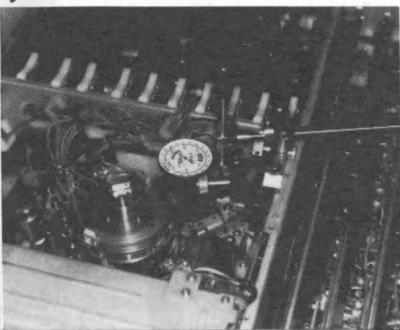
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## MII Dude

# Battery Debate

Over the last several months, the newsletter has received and published several articles and letters on the performance and care of Panasonic NiCad batteries. The first article started a discussion that has since grown into a debate on the causes of battery memory effect and the proper care and use of AU-BP220 batteries and the AU-B420 charger. The association has been working with Panasonic to come to a resolution on these issues for all users. Following this synopsis of "battery debate" history, there is an official statement from Panasonic addressing these important topics.

The battery issue was originally brought to light in November 1991, when we published an article by Tony Sangiovanni in *MII Playback* entitled, "Procedures for the Care and Feeding of Your Panasonic AU-BP220 Batteries." The article, contrary to Panasonic literature, mentioned that the batteries needed to be trickle charged for an additional 10 to 12 hours after completion of the quick charge. (See reprint on page 11.)

Prior to reading Tony's article, Mr. Dick Slade of Audio Visual Artists' Productions, followed the directions in the literature for charging his eighteen AU-BP220s on a AU-B420, ". . . When the lamp indicator light blinks, battery pack charge has been completed." When the light began to flash, Mr. Slade would remove the batteries from the charger and take them into the field. The batteries' performance was substandard and grew worse with time. When a "fully charged" battery would last only minutes, Mr. Slade shelved the AU-BP220s and made up his own battery packs with Radio Shack "D" cells.

Upon reading Tony's article, Mr. Slade realized that when he removed his batteries from the charger once the light began to blink, that they were only 65-75% charged, and not fully charged as the literature had lead him to believe. He became concerned that the consistent undercharging of his batteries had resulted in the memory effect that caused their premature failure. Since October 1992, Mr. Slade has corresponded with Panasonic representatives, detailing the problems that he has had and attempting to get restitution. He wrote, ". . . My problem stemmed, not from your product, but from your promotional and instructional literature, which I followed to the letter, and, in the process, ruined the batteries."

Upon examination of the batteries, Panasonic felt that they had undergone heavy usage, and therefore offered only eight AU-BP220s aa replacements. Attempts to recondition the original batteries were unsuccessful.

Mr. Slade contacted the MII Users Association in November 1993 after reading Tony Sangiovanni's second battery article in the October 1993 issue of the newsletter, "Battery Care -- Charging, Discharging, and Temperature." In the November issue, we printed a response to Mr. Sangiovanni's article by Mr. Dennis Goodrich of Iowa State University, questioning some of Mr. Sangiovanni's terminology and recommended procedures and denying the existence of battery memory effect. In addition, the association has received letters and phone calls from a number of other users who have had problems with or questions about their Panasonic batteries, including a member in Texas whose batteries have developed a terrible memory problem. He is currently trying to recondition them through a continuous charge/discharge (using a 5.5 ohm, 30 watt resistor) process. After a week, his batteries' capacity increased from 25% to 50% capacity.

The MII Users Association has been communicating with Bob Mueller at Panasonic since we received Mr. Slade's letter, updating Panasonic on new developments and requesting that the company take a stand on the issue. The efforts of the association, concerned users, and many Panasonic representatives, have resulted in the following article from Mr. Mueller.

The association wants to continue to be a link between MII users and Panasonic reps on this subject. This month's survey addresses the battery issue in depth, focusing on the AU-BP220s and the AU-B420 charger. The performance of the batteries and the charger is an important issue, and one that the association feels may affect other MII users. Please take a few minutes to answer the questions in the survey. The association wants to hear from you, especially if you have experienced difficulties with your AU-BP220s. Results from this survey will be shared with Panasonic.

# Setting the Record Straight: Battery Memory Does Not Effect Battery Life

Battery memory has become a highly debated and often misunderstood battery phenomenon. Even among experts there exists a broad range of opinions in certain areas. Having read with interest the letter in *MII Playback* on battery memory, we felt the issue deserved a Panasonic response. The main point is this: memory effect has no affect on a battery's useful service life.

Before entering into a technical discussion, MII users should be assured that Panasonic has always tried to be up front with them. In November 1991, Tony Sangiovanni wrote an article for *MII Playback* bringing to light the fact that the operating instructions for the AU-B420 battery charger omitted an important step in the charging process. Before any customer brought this omission to our attention, Tony informed MII users about it. This is the way the manufacturer/customer relationships should work. Panasonic has a solid track record of responding to and then solving customer problems. A very talented and conscientious team of professionals handles Panasonic's customer service.

## The Memory Effect of NiCad Batteries

All NiCad batteries have a memory effect. The cause of the memory effect can be attributed to two situations: precisely repetitive partial discharge, followed by a full slow charge, and a very long term charging with a trickle rate.

The effect of precisely repetitive partial discharge was first noticed by NASA in a satellite where the battery was discharged only partially to the exact same point and recharged. As

the process continues, the battery will eventually "memorize" this point of partial discharge. If a battery is partially discharged to various and random depths of discharge before recharging, this type of memory effect is not encountered. Batteries should be rotated so that each

successive day begins with a different battery.

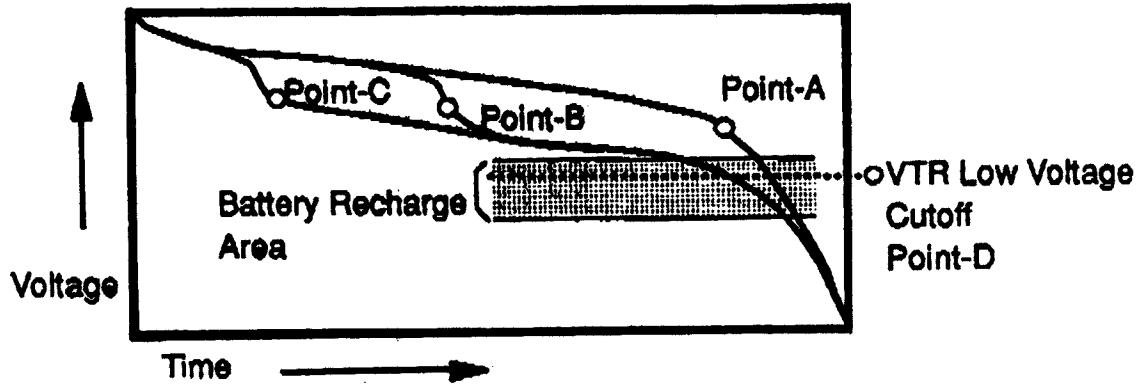
With regards to long term charging at a trickle rate, if the battery is left in slow charge for many days, the crystals of the active materials in the cells can grow in size and cause a condition similar to memory effect. This condition can be avoided by removing batteries from the AU-B420 as soon as possible after a full charge has been achieved. In addition, the condition can be avoided by two or three deep discharges (up to, but not past low voltage warning).

An example of memory effect is highlighted in Figure 1. If a NiCad battery is partially discharged and then subsequently recharged, the battery voltage will quickly drop at point-B on the discharge curve during the next usage. If this operation is repeated, the battery voltage drops sharply at point-C the next time. By repeating this cycle, the battery operation time is drastically decreased.

## Quick Charge and Trickle Charge

When a battery completes the quick charge cycle (steady "on" light to "blinking"), the battery is not fully charged. For a "full charge," the battery must be charged an additional 10 to 12 hours (trickle charge) after the initial quick charge cycle is completed. For long term battery operation, both correct charge and discharge are important.

Figure 1



One note: Many people are under the impression that quick charging is damaging to the battery or "stresses" the battery. Inherently, quick charging is no more stressful to the cell than slow charging if the proper cells and protection are employed.

### **(1) Correct discharge**

Discharge the battery until point-D in the shaded area (area that the battery should again be recharged). Do not charge the battery after only partial use. Please remember to discharge to the low voltage cutoff point before recharging.

### **(2) Correct charge**

The battery should be fully charged for 10-12 hours by trickle charge after the initial quick charge cycle is completed. When the indicator light changes from steady to blinking, trickle charge is being applied.

#### **Cancelling of the Memory Effect**

By using the battery to point-D, then beginning a full charging cycle, the battery memory effect will be canceled.

#### **Memory effect and battery life**

Even when memory effect occurs, by repeating steps one and two above a few times, memory effect will be canceled. Memory effect is not related to battery life. Battery life is dependent upon operating conditions, such as temperature, battery age, humidity, self discharging, etc.

How long a battery will last is a tough question. Even under the best care, NiCad batteries will not last forever. Proper use and maintenance have a large impact on a battery's life expectancy. For example, a driver who neglects changing his car's oil regularly shouldn't expect to drive that car for hundreds of thousands of miles. Video users shouldn't place unrealistic expectations on their NiCad batteries either.

#### **AU-B420 Charger System**

A few words should be devoted to the operation of the AU-B420 Battery Charger System in combination use with MII VTRs.

The low voltage cutoff level of MII VTRs is correctly set to protect the battery from being overly discharged. By following the charge and discharge operating steps below, the battery can be used efficiently without worrying about overcharging or overly discharging.

(1) Use battery until Low Voltage Cutoff operation of the VTR works.

(2) Charge the battery with the specified Panasonic battery charger for 10 to 12 hours with the trickle charge after the initial quick charge cycle is completed. When the indicator light changes from steady on to blinking, trickle charge is being applied.

(3) If fully charged batteries are stored for an extended period of time, it is recommended that a volt meter be used to check the voltage of the batteries. If the volt meter reads 12 volts or less, the batteries are not fully charged, and reduced operating time should therefore be expected. A full discharge and charge cycle should therefore be performed prior to using the battery.

### **Incorrect Operating Instructions**

Regrettably, an inadvertent omission was made in the operating instructions of the AU-B420 battery charger. The trickle charge step was left out of the recharging process. Any inconvenience this omission may have caused is sincerely regretted. However, corrective steps have been made. First, the operating instructions of all new AU-B420 chargers will be shipped with the correct recharging information included. In addition, Panasonic is now preparing a field service bulletin to alert all MII users to the correct charging procedure.

A special 800 support number exists for MII technical inquiries. The field service engineers staffing this line are prepared to answer any MII technical questions and can be reached at (800) 742-6530.

The MII Users Association and its newsletter, *MII Playback*, are applauded for the open forum it offers MII users, and the opportunity we have to listen and respond to their concerns.

*Sincerely yours,*  
**Bob Mueller**  
**General Manager**  
**Professional Audio-Video Division**

### **Proper Care and Feeding of Your Panasonic AU-BP220 Batteries**

*Reprinted from November 1991, by Tony Sangiovanni*

"Normal charging procedures are as follows: charge the batteries as usual, when they have completed the quick charge cycle the indicator light will change from steady on to a "blinking" mode. When the charge lamp changes to the "blinking" mode, that is when the charger changes from quick charge to trickle charge and the battery packs are between 65% and 75% charged. It is recommended that the batteries be left on the charger to trickle charge another 10 to 12 hours. At that time they will be fully charged. If the batteries are only allowed to quick charge, they will develop a "memory." This will eventually prevent the batteries from holding a charge. (Batteries that have developed a "memory" may be able to be reconditioned.)

"If the fully charged batteries are allowed to sit around for a while before being used, use a volt meter to check the voltage of the batteries. If the volt meter reads 12.5 to 14 volts, the batteries are still fully charged. But, if the volt meter reads 12 to 10.8 volts or less, then the batteries are not fully charged. Place the partially charged batteries on the charger, after the charge lamp begins to blink, leave the batteries on the charger for another 10 to 12 hours. *Be sure to periodically check the batteries to make certain that they do not overheat (if the battery is warm to the touch, it is charged).*" □

# MII Specifications for Bid Writing

Many MII dealers have told us that they are often approached by State and Local Institutions that will be sending out equipment purchase bids. Many times these bids are written around Betacam SP specifications, even though the customer may be interested in MII. To help in these situations, we have enclosed a document that is entitled "The Specifications and Parameter for Broadcast Quality Analog 1/2" Component Video Recorders/Editors/Players." This document is written for the MII specifications, which can assist the bid writers.

---

## **The Specifications and Parameters for Broadcast Quality Analog 1/2" Component Video Recorders/Editors/Players**

### **SCOPE**

- 1.1 Specification for a broadcast quality, 1/2", component, cassette based, videotape recording system.
- 2.0 GENERAL SPECIFICATIONS**
  - 2.1 All video recorder/editor/players to be furnished will conform to recording and playback of video signal consistent with the NTSC, 525 line, 59.94 field standard.
  - 2.2 All video recorder/editor/players to be furnished will operate within a supplied voltage range of 100 to 120 V AC, both 50 and 60 Hz, with a tolerance range of +/-10%.
  - 2.3 All video recorder/editor/players to be furnished will be capable of being rack mounted in an industry standard 19" wide rack. The hardware to accomplish this capability may be an additional (optional) accessory.
- 3.0 VIDEO RECORDING/PLAYBACK SPECIFICATIONS**
  - 3.1 All video recorder/editor/players to be furnished will record and playback using metal particle tape as the recording medium only.
  - 3.2 All video recorder/editor/players to be furnished will have a normal record/playback linear tape speed of 67.693 mm/sec, for maximized tape usage efficiency.
  - 3.3 All video recorder/editor/players to be furnished will have a relative FF and REW speed of 32 times normal recording/playback speed, with a black and white picture output during FF and REW.
  - 3.4 All video recorder/editor/players to be furnished will be of an analog component recording type, with a capability of accepting and outputting analog component video signals. These signals are commonly identified as: Luminance component (Y), Red color difference component (R-Y) and Blue color difference component (B-Y). Furthermore the levels for these signals shall be as follows: Y equal to 1.0 volt P-P, 75 ohms, R-Y equal to 0.525 volt P-P, 75 ohms and B-Y equal to 0.525 volt P-P, 75 ohms.
  - 3.5 All video recorder/editor/players to be furnished will utilize a 4 rotary head; 2 track helical scanning recording playback configuration.
  - 3.6 All video recorder/editor/players to be furnished will have an internal built-in time base corrector (TBC), with a correction window of 262.5 horizontal lines.
  - 3.7 All video recorder/editor/players to be furnished will have an internal built-in dropout compensator that is capable of correcting for up to a full field of dropout.
  - 3.8 All video recorder/editor/players to be furnished will record/playback the luminance signal using a frequency modulation system, while recording/playback of the chroma component signals will be using a frequency modulation system with the 2 chroma component signals time compressed by multiplexing.
  - 3.9 All video recorder/editor/players to be furnished will have the following video bandwidth specifications: Luminance (Y) equal to 30Hz to 4.5MHz, +0.5/-4.0dB; Chroma (C) (R-Y, B-Y) 30Hz to 1.5MHz, +0.5/-3.0dB.
  - 3.10 All video recorder/editor/players to be furnished will have the following signal to noise ratio specification: Component Y: 49dB or greater; Composite Y: 47dB or greater; C (AM,PM): 52dB or greater.
  - 3.11 All video recorder/editor/players to be furnished will have a YC delay factor specification of less than 20ns.

3.12 All video recorder/editor/players to be furnished will have a nominal K-Factor specification (2T pulse) of 2 percent or less with metal particle tape.

3.13 All video recorder/editor/players to be furnished will have a differential gain specification of 3% or less.

3.14 All video recorder/editor/players to be furnished will have a differential phase specification of 3 degrees or less.

3.15 All video recorder/editor/players to be furnished will have a linearity specification of 3% or less, in component.

#### **4.0 AUDIO RECORDING/PLAYBACK SPECIFICATIONS**

4.1 All video recorder/editor/players to be furnished will be capable of recording and playing back 4 separate audio channels. Furthermore, channel 1 and channel 2 will be of a linear type written and read by stationary audio heads, while channel 3 and channel 4 will be FM tracks, written and read by the rotating video heads.

##### **4.2.0 LINEAR AUDIO SPECIFICATIONS (CHANNEL 1 AND CHANNEL 2)**

4.2.1 All video recorder/editor/players to be furnished will have the following frequency response specification: 50 Hz to 15 KHz, +2.0/-3.0 dB.

4.2.2 All video recorder/editor/players to be furnished will have the following signal to noise ratio specification; 56 dB, or better with Dolby noise reduction off, and 74 dB, or better with Dolby noise reduction on. This specification is at 3% distortion.

4.2.3 All video recorder/editor/players to be furnished will have a cross-talk specification of less than -60 dB, at 1 KHz.

4.2.4 All video recorder/editor/players to be furnished will have an erase ratio (at 1 KHz) of less than -65 dB.

4.2.5 All video recorder/editor/players to be furnished will have an audio phase specification of +/- 20 degrees, at 15 KHz.

##### **4.3.0 FM AUDIO SPECIFICATIONS (CHANNEL 3 AND CHANNEL 4)**

4.3.1 All video recorder/editor/players to be furnished will have the following frequency response specification: 20 Hz to 20 KHz, +2.0/-3.0 dB.

4.3.2 All video recorder/editor/players to be furnished will have an audio dynamic range of 85 dB or greater (A WTD).

4.3.3 All video recorder/editor/players to be furnished will have a distortion specification of 0.5%, or less, at 1 KHz standard input level.

4.3.4 All video recorder/editor/players to be furnished will have a cross-talk specification of less than -65 dB, at 1 KHz.

4.3.5 All video recorder/editor/players to be furnished will have an audio phase specification of +/- 10 degrees, at 15 KHz.

#### **5.0 INPUT AND OUTPUT CONNECTORS AND SPECIFICATIONS**

##### **5.1.0 VIDEO INPUT CONNECTORS AND SPECIFICATIONS**

5.1.1 All video recorder/editors to be furnished will have 2 video input connectors. These connectors will be loop-through BNC connectors with a 75 ohm termination, selectable ON/OFF, for a 1 volt P-P signal.

5.1.2 All video recorder/editor/players to be furnished will have a reference video input. This input will consist of 2 loop-through BNC connector with a 75 ohm termination, selectable ON/OFF, for a 1 volt P-P signal.

5.1.3 All video recorder/editors to be furnished will have a 4- pin Y/C (S-Video) input connector. This S-Video connector will accept a Y signal of 1.0 volt P-P, at 75 ohms; and a C signal of 0.286 volt P-P at 75 ohms, with standard burst level.

5.1.4 All video recorder/editor/players to be furnished will have to capability to input component video signals through 3 BNC connector. The standard input levels for component signals will be: Y, 1.0 volt P-P; R-Y and B-Y, 0.525 volt P-P; with an input of 75% color bar signal with 0% setup.

##### **5.2.0 VIDEO OUTPUT CONNECTOR AND SPECIFICATIONS**

5.2.1 All video recorder/editor/players to be furnished will have 3 video output connectors. These video outputs will be referred to as Video Output 1, Video Output 2 and Video Output 3.

5.2.2 All video recorder/editor/players to be furnished will provide a Video Output 1 which will be a BNC connector and will supply a selectable composite or non-composite output. The composite output will supply a 1.0 volt P-P signal with negative sync, into a standard 75 ohm load. The non-composite output will supply a 0.715 volt P-P signal into a standard 75 ohm load.

- 5.2.3 All video recorder/editor/players to be furnished will provide a Video Output 2 which will be a BNC connector and will supply a composite output that is a 1.0 volt P-P signal with negative sync, into a standard 75 ohm load.
- 5.2.4 All video recorder/editor/players to be furnished will provide a Video Output 3 which will be a BNC connector and will supply a composite output that is a 1.0 volt P-P signal with negative sync, into a standard 75 ohm load. Video Output 3 will include a capability to provide a character or superimpose output for time code or machine status information to be displayed along with the output video signal. The specified levels are for video with or without the characters.
- 5.2.5 All video recorder/editor/players to be furnished will have a 4-pin Y/C (S-Video) output connector. This S-Video connector will output a Y signal of 1.0 volt P-P, at 75 ohms; and a C signal of 0.286 volt P-P at 75 ohms, with standard burst level.
- 5.2.6 All video recorder/editor/players to be furnished will have the capability to output component video signals through 3 BNC connectors. The standard output levels for component signals will be: Y, 1.0 volt P-P; R-Y and B-Y, 0.525 volt P-P.

#### **5.3.0 AUDIO INPUT CONNECTORS AND SPECIFICATIONS**

- 5.3.1 All video recorder/editors to be furnished will have 4 XLR 3 pin audio input connectors. All audio connections will have an input specification of +4, 0 and -20 dBu, level, switchable. All audio inputs will be a high-impedance type and balanced.
- 5.3.2 All video recorder/editor/players to be furnished will have one BNC input for time code, which will accept a 0.5 volt P-P to 8 volt P-P signal. This input will be a high-impedance type and unbalanced.

#### **5.4.0 AUDIO OUTPUT CONNECTORS AND SPECIFICATIONS**

- 5.4.1 All video recorder/editor/players to be furnished will have 4 XLR, 3 pin audio output connectors. All audio connections will have an output specification of +4, 0 and -20 dBu, level, switchable. All audio outputs will be a low-impedance type and balanced.
- 5.4.2 All video recorder/editor/players to be furnished will have one BNC output for time code, which will provide a 2.2 volt P-P signal. This output will be a low-impedance type and unbalanced.
- 5.4.3 All video recorder/editor/players to be furnished will have 1 XLR, 3 pin audio output connector to serve as an audio monitor output. This output will provide a mixed audio output signal from the 4 audio channels at 0 dBu level and will be low-impedance and balanced.
- 5.4.4 All video recorder/editor/players to be furnished will provide for a 1/4" phono stereo jack for headphone audio monitoring. This output will have a variable output with a range of minus infinity to -20 dBu, into 8 ohms.

#### **6.0 METERING AND DISPLAYS**

- 6.1 All video recorder/editor/players to be furnished will provide for audio input level meters. Recorder will have 4 separate meters for monitoring audio input and output levels. Players will have 2 separate meters for monitoring audio output levels, switchable between channel 1 and 3, and 2 and 4 respectively.
- 6.2 All video recorder/editors to be furnished will have a video input level meter.
- 6.3 All video recorder/editor/players to be furnished will have a tracking meter for monitoring playback RF envelope level. On recorders this may be switchable between the input video level function and the tracking function for playback.
- 6.4 All video recorder/editor/players to be furnished will have an alpha-numeric fluorescent information panel.

- 6.4.1 Recorders will have a 2 line, 32 character display that will provide the following information:

Time code, User bit or CTL information (selectable)

Machine status

Remaining tape time

Error warning messages

Editing information

Specifically:

    Edit in point

    Edit out point

    For split audio editing:

        Audio split in point

        Audio split out point

    Variable speed indication

    Jog speed indication

- 6.4.2 Players will have a single line display that will provide the following information: Time code, User bit or CTL

information (selectable).

**7.0 ADDITIONAL CONSIDERATIONS**

- 7.1 All video recorder/editor/players to be furnished will have the capability to record NTSC video signals in both the standard 4:3 aspect ratio, as well as 16:9 wide aspect ratio. Identification of such wide aspect NTSC signals will be performed "on tape", as well as output through the S-VHS Y/C (S-1 Video) connector to the monitor.
- 7.2 All video recorder/editor/players to be furnished will be capable of remote control by means of a serial, 9-pin, RS-422 signal. Furthermore the video recorder/editor/players to be furnished will conform to the serial control signal protocol commonly referred to as RS-422A, and as such will have 16 discreet addresses available.
- 7.3 All video recorder/editor/players to be furnished will have available, as an optional feature, the ability to accept parallel input control signals through a 50 pin connector. This parallel control system input feature may be an option at additional cost.
- 7.4 All video recorder/editor/players to be furnished will provide for quick and simple menu type set-up configuration. This set-up menu will be configured to be visually displayed on a standard video monitor, as well as menu item identification displayed on the front panel, when activated by the operator.
- 7.5 All video recorder/editor/players that have a slow-motion playback capability will have a slow-motion playback range of -1 to +2 times normal playback speed.
- 7.6 All video recorder/editor/players to be furnished will have the optional capability to provide a digital component video output signal. This digital output will be a parallel component digital signal (4:2:2), consistent with SMPTE 125M industry standard. This parallel digital output may be an option at additional cost.

**8.0 OPERATING MANUALS AND PERIPHERAL ITEMS**

- 8.1 All video recorder/editor/players to be furnished will be provided with 1 complete operating instruction manual.
- 8.2 All video recorder/editor/players to be furnished will be provided with 1 A/C power cable.
- 8.3 All video recorder/editor/players to be furnished will be provided with 1 RS-422 (9-pin) serial control cable.

**SPECIALIZED COMMUNICATIONS**  
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## New Wave of MII Machines to be Introduced at NAB

Although there have been no formal announcements from Panasonic concerning the rumor of a new series of MII machines, MII Man's spies deep within the company's organization have let the cat out of the bag! A new generation of lower price MII machines will be introduced at NAB with almost all of the great features that are offered on the "H" series units. The new machines, however, will be intended for computer control type applications such as desktop, graphics, and CART

systems, as there is no front panel shuttle knob for local control. Still, for the price, the advantages of a 3 dimensional TBC, 4 channel audio, and other features will blow away anything available on the market today in the 1/2" component editing realm, especially with the unprecedented and acclaimed Project 2000 Service Program. Most importantly, it is another indicator that Panasonic is staying committed to the format and a big thorn in the side for the "only baloney" fools who've been predicting MII's demise for years. "Hey Sony? We're not going away! Deal with it!" Details will be forthcoming as we get closer to NAB. Stay tuned! □

## MII in Concert

Last November, Gardy-McGrath International temporarily relocated a third of its MII equipment and half of its staff to DAR Constitution Hall to produce the Veterans Administration's annual musical Christmas show. In addition to subcontracting and coordinating all technical aspects of the concert, including the lighting and sound systems, a GMG crew, headed by Mark Janssen, engineered a six camera shoot. Panasonic engineers Tony Sangiovanni (MII Dude) and Sam Botros traveled from Secaucus, New Jersey, to be on hand during set-up to

help tackle any last minute problems.

The performance was switched live under the direction of Mr. David Gosey with GMG camera operators behind the 3-CCD lenses. Additional GMG technical staff monitored the audio, lighting, and picture quality from the engineering room. An AU-65H and two AU-520s were used to record a master tape and two ISOs.

The concert was videotaped before a live audience for broadcast at over 200 Veteran's Administration facilities across the country during the holiday season. The 90 minute concert was emceed by *Newsweek* correspondent Eleanor Clift, with other performances by Wintley



GMG roaming camera on stage during rehearsal for the Veterans Administration Christmas Concert show on November 10, 1993, at DAR Constitution Hall.

## Film to MII? You Bet!!!

"If you think that video footage mastered onto MII looks great, you should see what it does by 16mm film," states American Magnetic Media's president, Jeff Martin. "Being located in Denver, Colorado, we recently had the opportunity to duplicate several thousand ski videos which were shot entirely on 16mm film. The producer, "under our encouragement," decided to transfer and edit to MII. The results were breathtaking. I've never seen anything so vivid and rich in color coming out of a duplication bay. It actually looked like D-2 at first glance.

"We've also seen an increase in corporate videos and TV commercial spots coming from the MII format. Bill Nelson, President of Nelson Media Group in Bakersfield, California, is exclusively shooting on MII for such companies as Shell Oil and Contel of California. Bill states that MII is a profitable alternative to Betacam SP simply because of equipment cost. The look is strong and the clients love it. It appears with all the duplication American Magnetic Media is receiving, MII has truly made its mark in the production family. Our MII source decks are spinning 24 hours a day without rest, while other source decks operate only during first and second shifts. It's wild, that's for sure. But it's fun. Keep those MII programs coming. For your duplication needs, you can reach American Magnetic Media toll free at 1-800-USA-TAPE, extension 3 (customer support). □

Phipps, Shirley Jones, and the VA Medical Musical Group.

The concert videotape was interspersed with seasonal footage from GMG's stock library. The final presentation, enhanced by a 3-D animated graphic logo and other special effects, was post-produced by Jim Meeks in one of three MII edit suites at GMG's Reston, Virginia, full-service production facility. □

## SUREFAX to Ensure Membership Dues and NAB Info

One of the benefits of membership in the MII Users Association is the SUREFAX system, which enables us to disseminate information quickly and easily to all members via fax machine. The association will be introducing the system to MII users during the last week of January, faxing dues reminders to those members who have yet to pay their annual membership fees for the period of September 1993 - September 1994. After receiving the reminder, you need only fill out the form and send it

back to the association with your \$25.00. Please do so immediately! The association needs your support!

There will be a lot of upcoming information regarding NAB and the MII Users meeting that will take place in Las Vegas during the convention that we plan to send out via SUREFAX, so be sure that the MII Users Association has your fax number. You don't want to miss any important details! If you haven't sent in your dues and your registration form, there is a space on the form for your fax number. If you neglected to give it to us on your form or you have gotten a fax line since you sent in your dues, please call or fax in your number to us. □

## The Association Needs Your Help!

The start of the new year is a time for innovation, change, and improvement. The association wants to hear your opinions, your ideas, and, if applicable, your complaints.

The newsletter is a forum for all members in the association. Many of you take advantage of the free listings in the trading post to list your equipment for sale or equipment that you are looking to buy. We're glad so many of you benefit from this service, and we encourage you to get involved in the newsletter, and therefore the association, in other ways as well.

The association eagerly accepts press releases from all members, detailing specific projects, equipment acquisitions or upgrades, or services related to the MII format. Technical tips are also of great value to the readership. Information regarding equipment repair, integration, and utilization helps other users make the best use of their MII equipment, which benefits the format as a whole.

Many of the articles that appear in the newsletter every month come from fellow members. So drop us a line, and let the entire association

know what you are doing, creatively and technically.

Also, we need more readers to respond to the monthly surveys! The information that we gather from the monthly questionnaires does not stop in the survey results that appear in the following newsletters. The answers are important to the association and the MII format. Relevant answers are shared with Panasonic representatives, who value user input. All information becomes a part of the vast resources that the association is developing in order to better serve all users. So please, take a few minutes every month to answer the questions, and fax or mail the form back to us.

And finally, the association coffers need your support. Membership dues cover the costs incurred for printing and mailing the newsletter. Money made through the sale of training tapes and maintenance disks support the day to day operations at headquarters and enable the association to exhibit at NAB. Membership dues reminder cards will be mailed out again to those members who have yet to pay their \$25.00 for the September 1993 - September 1994 period. If you have

## Maintenance Software

Brian Roos, the Senior Field Engineer for Panasonic's Broadcast Engineering and Service Division in Norcross, Georgia, has developed a computer database with step-by-step instructions for performing routine maintenance on most models of Panasonic MII equipment.

The instructions found in this database are meant to be a "user friendly" companion to the maintenance procedures found in Panasonic's service manuals. Procedures for adjusting RF, A/C heads, tape tension, linear audio, and mechanical presets are included; as well as a flow chart illustrating the proper order in which to make these adjustments.

Although not 100% complete the database provides information for the following models: AU-400, AU-410, AU-500, AU-550, AU-60, AU-650, AU-620, and AU-65. The database has an easy-to-use interface for viewing files, and you can print out hard copies of each procedure.

Copies of this program are available from the Association. Each disk, which has information on all of the machines listed above, costs only \$15. Payment can be made by check or credit card. Simply call the Association at 1-800-966-1030 or (703) 620-6000 or fax your request to (703) 620-0451. Be sure to specify what size disk you need -- 3.5 or 5.25 inch. We appreciate the effort Brian has put into this project, and we'll provide updates as he adds information about the rest of the MII line.

**Canadian members**, please contact Denis Orendt of Panasonic Canada, at (416) 238-2269. He'll be able to provide the disk for you. □

not yet paid your membership dues, please do so immediately! The association cannot survive without your support. Help yourselves by helping the association. □

## Authorized Panasonic Dealers/Repair Centers

*The following is a current list of dealers and independent servicers authorized to repair Panasonic MII products, provided by courtesy of Wint Ramsey, of Panasonic Broadcast and Television Systems Company.*

### Northeastern

Advanced Video Systems  
19 Roots Lane  
Owego, NY 13827  
(607) 687-0545

AVEC Electronic Corporation  
2002 Staples Mill Rd.  
Richmond, VA 23230  
(804) 359-6071

Colortone Camera, Inc.  
76 S. Central Ave., Rte. 9A  
Eimsford, NY 10523

Communications Televideo  
9301 Georgia Ave.  
Silver Spring, MD 20910  
(301) 585-6311

Crimson Camera Tech Sales  
325 Vassar St.  
Cambridge, MA 02139  
(617) 868-5150

Eastern Video Systems, Inc.  
2 Sterling Rd.  
Billerica, MA 01862  
(508) 667-0009

Great Northern Video  
31 Industrial Park Dr.  
Concord, NH 03301  
(603) 228-0412

Levin Professional Services, Inc.  
11157 Viara Mill Rd.  
Wheaton, MD 20002  
(301) 942-6800

Professional Video Sales  
1001 Sussex Blvd.  
Broomall, PA 19008  
(215) 544-0311

Quail Video Productions  
924 Penn Ave.  
Pittsburgh, PA 15221  
(412) 243-1300

Specialized Communications (KEY)  
907 Maryland Ave.  
Hagerstown, MD 21740  
(301) 790-0103

Videoplay Industries, Inc.  
RT30 Tolland Ind. Park  
Rockville, CT 06066  
(203) 872-9195

### Midwest

Alpha Video & Audio, Inc.  
1836 2nd Ave. South  
Bloomington, MN 55420  
(612) 881-2055

B&J Photo, Inc.  
525 North Main St.  
Findley, OH 45040  
(419) 424-0903

Camera Corner, Inc.  
523 Monroe St.  
Green Bay, WI 54305  
(414) 435-5313

Communication System Group  
13355 Capitol Ave.  
Oak Park, MI 48237  
(313) 399-2000

Full Compass Systems, Inc.  
5618 Odana Rd.  
Madison, WI 53719  
(608) 271-1100

Industrial Broadcast Services  
5436 W. Mingo, Suite F  
Tulsa, OK 74146  
(918) 663-5123

Industrial Video, Inc.  
1601 N. Ridge Rd.  
Lorain, OH 44055  
(216) 233-5805

Madison Video Repair (KEY)  
1409 Greenway Cross  
Madison, WI 53713  
(608) 274-3464

Modern Communications, Inc.  
1733 Larkin WMS Rd.  
St. Louis, MO 63023  
(314) 343-0800

Pratt Audio Visual/Video Corp.  
200 Third Ave., SW  
Cedar Rapids, IA 52404  
(319) 363-8144

Professional Video Supply  
9401 Santa Fe Dr., Suite L101  
Overland Park, KS 66212  
(910) 642-5528

Swiderski Electronics  
1200 Greenleaf Ave.  
Elk Grove Village, IL 60007  
(708) 364-1900

TV & Video Service (KEY)  
14121 "S" St.  
Omaha, NE 68137  
(402) 895-3100

Thalner Electronics Labs, Inc.  
7235 Jackson Rd.  
Ann Arbor, MI 48103  
(313) 761-4506

### West

A-VIDD Electronics Co.  
3920 Gilman St.  
Long Beach, CA 30815  
(213) 498-7776

Accent Audio Video  
13616 Mautron Rd.  
Dallas, TX 75244  
(214) 458-0501

Audio Visual Supply, Inc.  
4575 Ruffner St.  
San Diego, CA 92111  
(619) 565-1101

Davis Audio Visual, Inc.  
2100 Clay St.  
Denver, CO 80211  
(303) 455-3440

E.C.I Video  
2809 Ross Ave.  
Dallas, TX 75201  
(214) 969-6946

G.C. Video, Inc.  
425 Eubank Blvd. NE, Suite E  
Albuquerque, NM 87123  
(505) 293-6509

GRC Electronics (KEY)  
1181 Pioneer Way  
El Cajon, CA 92020  
(619) 464-6446

High Tech Video Services (KEY)  
931 Enterprise Dr.  
Sacramento, CA 95825  
(916) 922-1400

IVS  
7925 Auburn Blvd.  
Citrus Heights, CA 92111  
(916) 725-6600

Lubbock Audio Visual Co., Inc.  
2120 Avenue Q  
Lubbock, TX 79411  
(806) 744-2559

Metrovronics, Inc.  
3000 Catina Ct.  
Los Alamitos, CA 90720  
(714) 827-4580

PCI, Inc.  
1595 West Amador, Suite H  
Las Cruces, NM 88005  
(505) 523-7788

Professional Video & Tape, Inc.  
10240 SW Nimbus, Suite L11  
Tigard, OR 97223  
(503) 598-9142

Studio Spectrum, Inc.  
1056 N. Lake St.  
Burbank, CA 91502  
(808) 843-1610

Troxwell Communications  
4030 South 38th St.  
Phoenix, AR 85040  
(602) 437-7240

TV Specialists, Inc./Video  
180 East 2100 South, Suite 104  
Salt Lake City, UT 84115  
(801) 486-7555

Video Technical Services, Inc.  
222 Truman NC  
Albuquerque, NM 87108  
(505) 265-4045

#### Southern

Audio Video Specialists, Inc. (KEY)  
234 Metairie Rd.  
Metairie, LA 70005  
(504) 835-4027

Broadcast International Group  
8200 NW 27th St., Suite 101  
Miami, FL 33122  
(305) 599-2112

Crecent Communication  
3535 Chatteau Blvd., Suite 3  
Kennar, LA 70065  
(504) 466-4454

Custom Supply, Inc.  
2509 5th Ave. South  
Birmingham, AL 35233  
(205) 252-0141

Florida Video Systems  
1422 NW 7th Ave.  
Miami, FL 33168  
(305) 688-6618

H.B Centennial  
2500 NW 39th St.  
Miami, FL 33142  
(305) 633-2200

K&M Electronics (KEY)  
2620F Mountain Ind. Blvd.  
Tucker, GA 30084  
(404) 934-2151

Long Communications Group, Inc.  
96 Burke St.  
Winston-Salem, NC 27101  
(919) 725-2306

Mission Service Supply  
Drawer 2957  
W. Monroe, LA 71294  
(318) 325-8674

Showcase, Inc.  
2323 Cheshire Bridge Rd. NE  
Atlanta, GA 30324  
(404) 325-7676

Total Audio Visual Services  
811 Marietta St.  
Atlanta, GA 30318  
(404) 975-7555 □

with building and exhibits. Additionally, the work will include procurement of all operating programs and software, all programming, scripting, debugging, etc. as necessary to deliver finished and completely operational audio-visual presentations. The contractor is responsible for procurement, installation, testing, and debugging of all equipment, hardware, wiring, and cabling necessary to provide completed audio-visual systems in the exhibits and building. The contractor is required to provide staff training, preparation of operating instructions, and maintenance manuals. It is anticipated that the Request For Proposal (RFP) will be issued on or about January 7, 1994; with subsequent proposal due date of February 25, 1994. The performance period for this contact is 695 calendar days from the date of contract award. The estimated dollar/magnitude of effort required for this project is \$1.0 - \$2.0 million. This procurement is open to both Large and Small business Firms. S.I.C. - 7812 \$14.5 Million. A limited amount of plans/specifications will be made available on a first come, first served basis. All requests for the solicitation must be in writing by mail or facsimile. Our fax number is (303) 236-0491. Planholders (Solicitation) lists will only be supplied upon written requests per FAR 14.205-5. (0338)

delivery indefinite quantity contract consisting of one base year and three option years to begin on September 21, 1994. The proposed contract is 100% set aside for small business concerns. No telephone requests for this solicitation package will be accepted. (0350)

**U.S. Fish and Wildlife Service, Branch of Construction Contracting, 143 Union Boulevard, Suite 300, P.O. Box 25207, Denver, CO 80225-0207**  
**T-AUDIO-VISUAL ELEMENTS FOR WALNUT CREEK, NATIONAL WILDLIFE REFUGE, SOL RFP No. FWS 10-94-017. DUE 022594.** POC Contact Bev, Vicky, or Pat, (303) 236-8191. The contractor will provide everything to perform and complete creative development, production, installation, and testing of the audio-visual elements for the Walnut Creek National Wildlife Refuge Visitor's Center near Prairie City, Jasper County, Iowa. The Visitor's Center serves to orient visitors to the site, tallgrass prairie, and prairie construction. The exhibits will employ a variety of media, including hands-on interactives, dioramas, graphics, and audio-visual exhibits. The audio-visual exhibits include: Orientation Theater, Fire Theater, People of the Prairie Mini Theater, Prairie Zoomer, and Prairie Ribbon Ambient Sound System. Work will include development and completion of all treatments, scripts, storyboards, and graphics. The contractor will provide all necessary research to complete the audio-visual elements. The contractor will be responsible for all shooting and production, talent selection, contracting and releases for people and images which appear in the productions, and acquiring the rights to use historic and contemporary documents as part of these audio-visual elements. Work will also include all audio-visual systems design and coordinating audio-visual elements

**Wallowa-Whitman National Forest, P.O. Box 907, Baker City, OR 97814**  
**T-VIDEOTAPE PRODUCTION SOL 16-94-11. DUE 021594.** Contact Contracting Section, (503) 523-6391. Hills Canyon Videotape Production. Produce and edit a final product, a professional quality videotape which showcases Hells Canyon National Recreation area of Oregon and Idaho. The video will highlight the diversity of Hells Canyon - wildlife, terrain, history/prehistory, weather, seasons, recreation, vegetation, life zones, and land management. Offers are being solicited from firms randomly selected from the QPL maintained by the Federal Audio Visual Contract Management Office. Other qualified producers/individuals who are on the QPL may request copies of the RFP. Award is restricted to firms/individuals on the QPL and is 100% set-aside for small business concerns. □

## Government Solicitations

**Department of the Interior, U.S. Geological Survey, Office of Procurement and Contracts, Mail Stop 205A, Room 6A331, 12201 Sunrise Valley Drive, Reston, VA 22092**

**T-GRAPHIC ART DESIGN AND PRODUCTION SERVICE, SOL 8009. DUE 021494.** POC Ms. Cindy Sather (703) 648-7361 (contact). Ms. Kathy Craig (703) 648-7357 (CO). The National Mapping Division of the U.S. Geological Survey produces and distributes to the public different types of maps and map products. It presently has a requirement for contractors to furnish all labor, facilities, and materials required for the design and production of creative graphic art work for conveying information in various forms of visual communications media, including, but not limited to, educational and scientific materials, publications, posters, catalogs, leaflets, order forms, internal tracking documents, point-of-purchase materials, advertisements, public service announcements, promotional and direct mail communications materials and signage. Offerors shall be required to demonstrate considerable experience and expertise in the area of grid design and the ability to produce science and educational materials. Offerors should also be capable of demonstrating good quality writing based on grammar and syntax. Previous experience with government non-profit organizations is highly desirable. Due to the requirement for frequent contact between government personnel and the contractor and the need for rapid response times, the contractor must be capable of meeting with government personnel at the U.S. Geological Survey, Reston, Virginia, within a two hour response time. The government intends to make multiple awards by means of an indefinite

## MII Duplication Facilities

If you are a duplicator, or if your facility does duplication in addition to its other services, and you are an MII User, the Association needs to know about it. We are compiling a list of MII Duplicators that we'll run regularly in the newsletter.

*Currently our list includes:*

**Action Video Productions** Greenville, SC  
(803) 297-8865

**American Production Services** Seattle, WA  
(206) 282-1776

**Advanced Audio Video** Denver, CO  
800-368-0406

**American Magnetic Media** Denver, CO  
800-USA-TAPE

**AME** N. Hollywood, CA  
800-336-3827

**Avon Productions** South Plainfield, NJ  
(908) 756-0643

**Bennu Productions** New York, NY  
(212) 213-8511, Wayne Keeley

**Broadcast Video Products** 480 Main St Armonk, NY  
(914) 273-6649, Jack Miller

**Cassette Dub Inc.** Northvale, NJ  
(201) 767-7077

**CenterCom, Inc.** Milwaukee, WI (414) 353-2001  
Lincolnwood, IL (708) 675-1411  
Tampa, FL (813) 886-8266

**Commercial Video** 101 Winston St.,  
Cumberland, MD 21502  
(301) 724-2799, ask for Greg.

**Commonwealth Films** Richmond, VA  
(804) 649-8611

**Copymaster Video** Villa Park, IL  
(708) 279-1276

**Cinequipt** St Paul, MN  
(612) 646-1780

**Creative Visual** 10135 J St.,  
Omaha, NE 68127  
800-547-4184, ask for Larry.

**Curtis Inc.** Charlotte, NC  
800-733-2878

**Curtis Inc.** Cincinnati, OH 45202  
800-733-2878

**ECI** Dallas, TX  
800-880-9400

**Elite Video Production** Brooklyn, NY  
(718) 627-0499

**Global Vision** Reisterstown, MD  
(301) 356-6715

**Group Video Productions** Sacramento, CA  
1-800-748-4982

**HAVE, Inc.** Hudson, NY  
(518) 828-2000

**Industrial Audio Video** Houston, TX  
(713) 535-2375

**Industrial Communications** Birmingham, AL  
(205) 942-0132

**International Video Center** 2528 Edgehill Rd  
Cleveland Heights, OH 44106  
(216) 321-1440

**Juntunen Video** Minneapolis, MN  
(612) 341-3348, Mike Vinup

**MagneTech** Ft. Lauderdale, FL  
800-683-DUPE

**Majestic Video** Burbank, CA  
(818) 843-1806, Cliff Sawyer

**Master Images Video Duplication, Inc.** Northbrook, IL  
(708) 564-0470

**Media Concepts** St. Petersburg, FL  
(813) 321-2122, 800-330-3873

**Multi-Magnetics** Denver, CO  
(303) 825-7768

**Network Video Services** Alexandria, VA  
800-289-DUBS (3827)

**Park Avenue Productions** Richmond, VA  
(804) 346-3232

**Preston Trucking** Preston, MD  
(410) 673-2930

**Pro Line Video** Austin, TX  
(512) 837-2000 x30

**Quinn Productions** Winston-Salem, NC  
(919) 768-2746

**Sign Media, Inc.** Burtonsville, MD 20866  
(301) 421-0268

**Shooby-Dooby Duping** Orange, CA  
(714) 744-4041, Terrence West

**Televant Video Services** Oak Park, IL  
(708) 383-5588

**Vaughn Communications:**  
Minneapolis, MN 800-323-0281  
Creve Coeur, MO (314) 576-6804  
Phoenix, AZ 800-228-7609  
Milwaukee, WI (414) 276-6511  
Tampa, FL 800-252-7564  
New York, NY (212) 447-1038  
Portland, OR 800-772-2251  
Atlanta, GA 800-966-0859  
Irvine, CA 800-228-7609

**Video Duplication** Atlanta, GA  
800-235-9732

**Video Duplication Services**  
Columbus, OH 800-289-4301  
Dayton, OH (513) 294-5883  
Cleveland, OH (216) 741-3827  
Youngstown, OH (216) 792-3827

**Video Management Systems**  
Indianapolis, IN  
(317) 639-6163

**Video on Location**  
Rockville, MD  
(301) 984-5823

**Videoland** Lacey, WA  
(206) 491-1332

**Video Now** 610 S. Central Ave.  
Kent, WA  
(206) 852-1186

**VideoPlay Industries** Rockville, CT  
(203) 875-5211

**Video Proofs** Rohnert Park, CA  
(707) 586-0383

**Video Replay** Chicago, IL  
(312) 467-0425

**Video Transfer** Rockville, MD  
(301) 881-0270

**Vidicomp Distributors**  
Houston, TX  
(713) 694-6400

**VIP Duplication** 2908 Cameron St.,  
Suite-B, Monroe, LA 71201  
(318) 322-8222, Phillip Nelson

**Wilderness Productions**  
S. Lake Tahoe, CA  
800-874-7488, in CA (916) 577-3008

**WGVU/WGVK-TV**  
Grand Rapids, MI  
(616) 771-6666, TDD 800-748-0488

**WPSD-TV** Paducah, KY  
(502) 442-8214, Bob Fesmire

*Canadian Duplicators:*

**Agincourt Productions**  
Richmond Hill, Ontario  
(416) 886-8273

**Marine Video** 1955 Wylie St.  
Vancouver, B.C. V5Y 3N7

*If your company isn't listed here,  
please call 1-800-966-1030. □*

## MII Rental Facilities

The association has been compiling a list of MII equipment rental facilities. If your company does not appear on this list, please contact the association.

### AudioVisual Headquarters

Rancho Dominguez, CA

(310) 885-4200

Rent out 3-AU-65's, they have shipping cases.

**Avon Productions** S. Plainfield, NJ  
(908) 756-0643

Studio & Field MII, Cameras, etc.

**Avonix** Brookfield, WI

800-222-6050

Full line of MII available

**Broadcast Video Products**

480 Main St Armonk, NY

(914) 273-6649, Jack Miller

**Communications Televideo Ltd.**

(CTL) Silver Spring, MD

(301) 585-6311

AU-65, D-3 AJD350 Editor, D-3

AJD310 Camcorder

**Cinequipt** St Paul, MN

(612) 646-1780

Full line of MII available

**Davis Audio Visual Inc** Denver, CO  
(303) 455-1122

**ECI Video** Dallas, TX

800-880-9400

AU-63H, AU-65H, WV F700 cam  
/AU-410 dockable

**Metrovronics, Inc.** Los Alamitos, CA  
(310) 430-3509

Full line of MII available

**Professional Desktop Video Systems**

Glendale, CA

800-862-7820

Camcorder WV-F700/AU 410

**Pro Line Video** Austin, TX

(512) 837-2000 x30

Full line of MII available

**Video Management Systems**

Indianapolis, IN

(317) 639-6163

Sony M7 Cam., AU 500 Portable MII  
Deck

**Vidicomp Distributors**

Houston, TX

(713) 694-6400

**WGVU/WGVK-TV**

Grand Rapids, MI

(616) 771-6666, TDD 800-748-0488

AU-650, AU-500, AU-400

### Canadian Rentals:

**VidCom** Vancouver, B.C.

(604) 732-9711

WV-F250/AU400 Camcorder, AU-  
63, AU-65, AU-550□

## MII Job Shop

Experienced On-line MII Editor,  
preferably PALTEX and IMPACT  
DVE expertise, must be willing to  
relocate to the Washington, DC area,  
salary commensurate with experience.  
Ref. #9202A

Experienced Amiga Graphic Artist,  
2-D and 3-D capability, familiarity  
with MII desired, must be willing to  
relocate to the Washington, DC area,  
salary commensurate with experience.

Ref. #9202B

Send resumes and sample tapes to the  
Association. Please state which  
position you are interested in.

*All responses will be kept in strictest  
confidence. □*

## Turn Betacam production clients into MII Users!

### *Betacam/MII or MII/Betacam Transfer!*

Now available to the Users Association -- Members at reduced rates!  
48 hour turnaround for quantities of up to four tapes (via Federal Express)  
for both "S" and "L" size Betacam cassettes.

Services supplied by GMG International at the following rates  
(which include the cost of tape):

up to 20 minutes	\$37.00/dub
up to 30 minutes	\$55.00/dub
up to 60 minutes	\$105.00/dub
up to 90 minutes	\$155.00/dub

(Shipping not included.)

*Call 1-800-966-6689 or (703) 620-6000 and ask for Tom Howley.*

Transfers delivered C.O.D. or VISA/Mastercard accepted.

# MII Trading Post

*Please contact us when the equipment is sold!!!*

## Equipment Wanted

**Wanted: USED ONE INCH MACHINE,** Prefer Ampex VPR-2 or Hitachi HR200E or HR200B. Please contact the MII Users Association, 800-966-1030, fax (703) 620-0451 (Reston, VA) if you have one to sell.

**Wanted: Panasonic AU-TB50 or AU-TB50B Time Base Corrector** in good condition. Please contact John Cahill (908) 269-0100 (NJ).

**Wanted: Fujl 12 x 9 Berm with x2 extenders.** Call Michael Miller at (517) 758-2087. (Saginaw, MI).

**Wanted: Used WV-F300 video camera MII adaptor (WV-VT10).** Contact Jordan (212) 966-5660 (New York, NY).

## Equipment for Sale

**Panasonic CLE 200/ AU 400,** new heads, excellent condition, \$7,500. W/ case & quick draw case. Call Tom Whaley at (419) 621-0602 (Sandusky, OH).

**GVG 1600 Series Production Switchers, 1L and 1X (10 Inputs)** \$6,000.00, 3K (16 Inputs) \$10,000.00. 7K and 7H (20 Inputs) \$12,000.00. All options are available. Contact Post Plus 40 East Main St., Port Jervis, NY 12771.

**Panasonic AU-520, Portable MII Recorder,** Demo unit, \$8,995.00. **Panasonic AK-400/AU-400 Camera/Dockable MII,** \$11,000.00. Also available: **JVC KY35ENG/KAB35 Camera,** includes 15:1 lens; **Betacam adaptor,** \$13,000.00; **Crosspoint-Latch 6112 2M/E switcher w/chroma key** \$2,250.00; **Crosspoint-Latch 8200 switcher/DVE/w/dual channel TBC** \$1,925.00; **ECHOLAB, DV7 SEG/switcher w/GPI** \$2,995.00. Please contact **Ken Muehlbauer, 800-222-6050.**

**Panasonic AU-65, MII Studio Recorder/Editor,** good condition, \$8,500.00.

**Panasonic WV-F700/AU-410 Camera/Dockable MII,** Demo unit with one year parts & labor warranty. Camera/MII package has ENG/EFP kit w/15x lens, battery charger, and all other accessories, \$17,000.00.

**Panasonic AG-7750 S-VHS Recorder/Editor,** good condition, \$4,400.00. For further information, please contact **Terry Nixon, (512) 837-2000 extension 22, TX.**

**Panasonic AU-63, MII Studio Player w/AT,** New in Box, \$11,600.00. Contact **Darrell Johnson 800-264-0590 (TN).**

**Panasonic AU-63H AT, MII Studio Player w/AT,** new, \$11,640.00. Also, **AU-65H Studio Recorder/Editor,** new, \$12,028.00. Full Warranty. Contact **Bill Frazier (412) 243-1300 (PA) Quail Video.**

**JVC KRM 800U Recorder/Editor,** excellent condition with new heads...asking \$6,750.00. Contact **Harry Breitneyer, 1365 McMullen Booth Rd, Clearwater, FL 34619 (813) 726-02024.**

**Panasonic AU-63, MII Studio Player w/AT,** demo with time code, \$8,000.00. **200CLE 3-Chip Camera** \$3,700.00. The following have

worked well together in a A/B roll MII suite: **Jazz "Ensemble" DVE,** with all extra cards and upgrades-paid \$18,000.00 sell for \$7,000.00. **Panasonic AGA800 Edit Controller,** with 3 9-pin cards \$2,900.00. **AGSW 800 AV Switcher,** \$2,500.00 **TBC 200 \$1,500.00.** Contact **Jack Miller at (914) 592-4151 (NY).**

**JVC KMD 600 U S-VHS Duel TBC,** with downstream keyer, accepts RGB from computer, works with AMIGA toaster or as a stand alone unit, excellent condition, \$3,800. Contact **Bill Dunbar, Dunbar Video Productions, Holly, MI. (313) 634-8686.**

**Panasonic AG 7750 w/TC \$4500., Panasonic AG 750 editcontroller, \$1000.** LAIRD legend Character generator, w/Encoder \$3000. **JVC 8 Input Switcher, w/Chroma Key, Tally, Intercom & GPI Trigger,** \$2500. **Panasonic AVES Switcher \$900.** All in great shape, w/rackears, slides & manuals. Call **Tim Dench (502) 239-0229.**

**AU-520 Portable MII Recorder,** only 120 hours with portable case, AC supply, and BP-90 Batteries, \$6950. **AGA800 Edit Controller** with 3 serial and 2 parallel interfaces and RS-232 data cable, \$3,200. **O'Conner 50 Fluid head** on wooded legs with spreaders. Good condition, \$1,475. All carry a 30 day warranty. **Ampex ADO-100 DVE, 3D Option & Upgraded software,** \$16000. Much more, owner retiring. Call for full list. Contact **Bob Pooler at (508) 263-7727 (Boxborough, MA).** **JVC CR-4700 3/4" portable recorder** with time code, batteries, and portabrace. Just rebuilt. Contact **Jordan Gershon, Majec Productions, (913) 894-1188 (KS).**

**Panasonic AG 7500A SVHS Editing Decks,** Special Demo Units, in box, FULL Warranty. \$3,500.00 each, or both for \$6,800.00. **New edit controller,** also available \$1,400.00. **MX10 Digital Special Effects Generator w/Titler,** \$900.00. Please contact **Tim Dench, (502) 239-0229 (KY).**

**Telmet TM 8615,docking adapter AU400/410 to BVP7,** asking \$999.00. **CrossPoint-Latch 6112 (used), 2M/E Switcher, w/chroma key** asking \$2250.00 **Echolab, DV7 (used), BO SEG/switcher w/GPI,** asking \$2995.00. **Tektronix 244505 (used), Combo waveform/vectorscope,** asking \$2650.00. **Anton Bauer MP4/probe (demo), battery charger, 4bay w/probe,** asking \$2195.00. We also have many accessories. Please contact **Avonix at (414) 783-6050.**

**Panasonic AGB745 (new), Battery Charger,** asking \$399. **TELMET TM8615, Docking Adapter AU400/410 to BVP7,** asking \$999. **K&H CAU500 (Demo), Carry Case for PAN AUS00/AU520,** asking \$149. **K&H CAU500 (Demo) case for AU500,** asking \$149. **CROSSPOINT-LATCH 6112 (Used), 2M/E Switcher with Chroma Key,** asking \$2250. **TEKTRONIX 244505 (Used), Combo Waveform/Vectorscope,** asking \$2650.

**VIKING AUS00CASE (Rental), R776 ATA Shipping Case,** asking \$250. Please Contact **Scott Schuelke at AVONIX, PO Box 505, N. 124th Street, Brookfield, Wisconsin 53005.**

**Panasonic AU-300 Video Recorder/Reproducer w/A-30 Editor,** Good Condition, \$4,900.00. **Nagra IV-SJ Recorder/Reproducer,** Like New, \$2,500. **Sony VO-5800H High Resolution 3/4" UMatte Recorder/Reproducer,** Excellent Condition, \$1,500. Contact **John Urciolo, Rand Systems Engineering Inc., (301) 983-1998.**

**Panasonic WV-S700 w/AU 410, 15x1 Lens, Battery & Charger,** \$11,000. Contact **Alan Nguyen, (714) 531-8896.**

**JVC-F911U Interface Unit \$500. JVC-SAT411U Time Base Corrector,** with Noise Reduction (RGB YC Composite), \$2,800. **Sony V09800 SP 3/4" Recorder/Player \$3,000.** 2 **Panasonic WJ300B Rack Mount Video Distributer Amplifier \$1,500 each.** **WJA01 Rack Mount for Video DA \$65.** **Panasonic WJ2254 Rack Mount Switcher \$200.** **Panasonic WJ-200RB Rack Mount Switcher \$200.** **JVC BR-S411U SVHS Docking VCR with JVC SA-R100U VITC Time Code Generator, \$2,500.** All equipment like new and taken excellent care of. Contact **Clark's Video Productions, (501) 636-8599.**

**Convergence 195 Controller,** lightly used. Excellent condition. Just reconditioned by factory service rep. With serial and parallel cards, \$1,850. **Larry Cohen Productions, Watchung, NJ, (908) 561-8742.**

**For Sale: (1) Panasonic AU 400,** less than 100 hours, very clean, \$3250. Call **Bob (305) 565-1762.**

**Panasonic DM 7010 MII Camera/VCR Dockable System.** Three 2/3" CCD's, 750 lines, 62db S/N, Digital Processing. New/Full Warranty, \$12,000 (\$24,000 retail). Call **Ralph Olson at (607) 687-0545 (Owego, NY).**

**Complete Animation/Graphics System.** 486 computer with 600 Meg, hard drive, diaquest controller and targa 64+ board. Software includes Topas 4.0, Tips, Rio, QFX, Logo Editor, Panorama, and Lumena. Originally purchased for \$28,000, asking \$17,000. Contact **Jordan Gershon, Majec Video Productions, (913) 894-1188 (Overland Park, KS).**

**JVC CR 850 U 3/4 inch editing VCR,** \$3,800. **Alta Centaurus Stillstore/switcher** with hard drive, \$8,500. Call **Bob Richardson, Jr. at Riverside Productions, 800-848-9752.**

**JVC KRM-800 MII editor/recorder,** \$4,000. **Alta Centaurus Dual Channel TBC Digital Effects Stillstore System,** \$7,500. **DUBNER 5K Character Generator,** \$3,500. **Paltex Abner A/B Edit Controller,** \$2,500. **JVC F911 Interface,** \$500. Contact **Mark Johnson at Reel Video Productions, (814) 695-8054 (Hollidaysburg, PA).**

**Hotronic AH91 Dual TBC S-VHS/Composite with sync Generator/switcher.** Wipes, push/pull,

freeze frame, freeze field, paint, mosaic, DOC, full band width, infinite window. Excellent condition. Asking \$3,500. Call (407) 777-3936 (Satellite Beach, FL).

**Panasonic AU-410 Dockable VCR**, new \$7,500. **Panasonic WV VT 15 MII Docking Adapter** for Panasonic WV F2 50, new, \$950. Contact Tom Tauges with Audio Visual, 1-800-862-2339 (Plymouth, MN)

**D-3 VTR** **Panasonic AJ-D350** like new condition, under 300 hours, \$30,000. Call Walter Druker, BCS-NY (212) 268-8800 (New York, NY).

**JVC KY20/BRS4111 3-CCD S-VHS Camcorder**, Fujinon 16x1, MK50 Shotgun, Portabrace case, battery holder, XLR in excellent cond, \$4,895. **KY20**, lens, adapter, tripod plate, only \$2,895. **JVC KY210B 3 Tube with Fujinon 16x1**. Hard case, tripod plate in excellent cond. Was used as back-up Cam only. Rated over 700 lines, \$2,495. **JVC CR4900U 3/4" Portable** with portable case. Exc. cond., \$1,000 firm. Contact George at Video Proofs, (707) 586-0383 (Rohnert Park, CA)

**Two A12x9-Berm**, @ \$1,250.00 each. **AG-A800**, \$1,575.00. **Two AK-400**, @ \$8,000.00 each. **AU-410**, \$3,940.00. **AK-AD430**, \$70.00. **AKR1055**, \$207.00. **AD-AD410**, \$1,136.00. **AU-520**, \$4,600.00. **AU-B110**, \$330.00. **AUB420**, \$340.00. **Four AUB220**, @ \$56.00 each. Contact Jennifer or Dave at the MII Users Association at 1-800-966-1030.

**AU-410** in mint condition (75 hours) with VT-15 adapter plate, AUS-400 stand alone unit, and AUB-420 4 position charger with brand new carry case, all for \$6000.00. (916) 577-3008, VISA/MC/AMX, K-MTN TV-8 (Lake Tahoe, CA).

**Amiga 2500** with Video Toaster version 3.0, Operation System 2.0, 1084S color monitor, 030 accelerator card - 25 Mhz, 50 meg hard drive, 120 meg hard drive, SyQuest 88 meg removable hard drive, 9 megs RAM, and 2 meg Agnus chip. Original Cost with upgrades \$7,910.00, asking \$3,950. Contact John Clower at (404) 691-2538 x 445 (Atlanta, GA).

**Panasonic S-VHS Professional Edit Package**, AG7750 Edit Recorder with time code, AG7650 Source Player with time code, AGA770 128 Event edit controller, all interface cables. Demos with one year warranty! Only \$9750 (\$18,410 list). Call (607) 687-0545, 9am-6pm, E.S.T. (Owego, NY).

**Panasonic AU-63H**, MII studio player with AT, sealed new in box \$11,000.00. **AU-65H** recorder/editor sealed new in box \$11,340.00. **PTB1010UF 120"** video projector sealed new in box \$5,783.00. All with full warranty. Call Greg LaDue at (607) 687-0545, 9am-6pm, E.S.T. (Owego, NY).

Several **Panasonic AU-B420** battery chargers, **AU-BP220** "brick" battery packs, **AU-M400** battery holders. Contact Michael Miller for pricing at (517) 758-2087 (Saginaw, MI).

**MII AU-500** portable deck. Low hours. Make offer. Contact Bill Doran at (201) 866-4568.

**JVC 611**, \$1999. **JVC 611**, \$2299. **JVC 811**, \$2999. **JVC RMG 810** edit controller, \$799.

**JVC KY-2U 3 2/3" chip camera/FUJI**

13x/JVC410, case, AC/4 battery, zoom/focus controls, 5 JVC NB-G1U, \$3999. **JVC TM1400SU 14"** monitor, \$399. **Bogen 3046/3056/3066** Tr/Dly/Hd \$399. **Panasonic WV250B FUJI 12x/AG-7450A EFP** \$5199. **Panasonic AGF745 TC Rdr/Gmrt**, \$499. **Leader 1420 Vectorscope** \$699. **Shure M267 4 channel mixer**, \$299. **Peter Lissand shoulder brace**, \$99. **Vinten tripod VIN-5A/Vision 5 HD** \$1199. **SONY multi dsc lsrvsn** \$249. Call Bill Tucker at (518) 356-0334 (Schenectady, NY).

**JVC KR-M820U MII editing VCRs** with T.C. board option, \$5,995.00 each. **Panasonic Broadcast AU-500 MII portable edit source VCR**, 100 hrs., \$3,695.00. **AU-45H AU-410 MII dockable** near 0 hrs., \$5,995.00 each. **Panasonic F250B & F700** factory demo camera packages, call for \$. **Ikegami HL-95D** plumbacon like new dockable camera with Fuji Pegasus II Broadcast 2X 14:1 lens and **Panasonic AU-400 MII dockable VCR**, \$5,995.00 with options. **FAST Video Machine systems**, call for \$. Call Charles Wiegand at (614) 967-0059 (Newark, OH).

**JVC MII KRM 800U** 500 hours, good condition, recording and editing VTR. Asking \$4,100. Call Dave Andrews with Video Reflections at (801) 272-3031.

Optics and Images has gone out of business. Must sell: **Panasonic AU-60 MII studio recorder** . . . **Panasonic Au-500 MII field recorder** with AC/charger unit, batteries, and Portabrace case . . . Also **JVC 210B camera** with AC/charger, batteries, component adapter . . . And **JVC U-matic field recorder** with AC/charger, batteries, and case. All equipment in excellent condition. Contact David Anderson at HVS Productions (414) 468-3333 days or (414) 863-6923 nights.

**Laird 1500 character generator** with 1032 encoder and 70 fonts, \$3,500. Contact Jordan Gershon, MAJEC Video Productions (913) 894-1188.

**FORA Y688 TBC** with Faroudja processing. Asking \$1,500. David Andrews, (801) 272-3031 (Salt Lake City, UT).

**Panasonic CT-1030M 10"** color monitor with rack mount kit, never used, \$300. **CCI Model 800 Y/C delay distribution amplifier**, 1 input, 3 output, front panel luminance, chroma and Y/C delay controls. New, in box, \$450. Call Ron at (516) 285-7146 (Long Island, NY) 9-5 est.

**Panasonic AU-S500 MII broadcast portable** with portabrace case and new tapes, low hours. Best offer. Call Bill Cohen (516) 467-7551 (Ronkonkoma, NY).

**Panasonic AU-410 dockable VCR**. New but opened box, \$6,000. **Panasonic WV-VT15A MII docking adapter WV-F250 camera**. Demo unit, \$800. Contact Earl Neville at (414) 435-5353 (Green Bay, WI).

**AU-400 Camcorders**, \$1,000. **Telemetric TM 8615 docking adapters** with Anton-Bauer brick connector, \$600. Contact Chuck Deen (602) 257-6540 (Phoenix, AZ).

**JVC KY310 Camera** with control unit, speed plate, and 70' cable. Asking \$850. Call David Andrews av (801) 272-3031.

2-JVC, BR-S611U S-VHS recorders with SA-

F911U serial interface units and rack mount hardware. 500 hours. \$2850 each. 1-JVC, BR-S811U S-VHS editing recorder with SA-F911U serial interface units and rack mount hardware. 700 hours. \$3850. \$8995 takes all. Contact Ron at (516) 285-7146 (Long Island, NY).

**Panasonic AU-410S, AU-63, AU-65**, all approx. 2000 hours, package deal, \$15,000. Call Don Atchison at (613) 821-7783 (Ottawa)

**Panasonic AU-65H Studio Recorder/Editor** sealed new in box, \$11,000. **Panasonic PTB1010UF 120"** video projector, sealed new in box, \$4,700. **Panasonic DM7010** dockable WV700 and AU-410, only 10 hours, demo, \$11,000. **Panasonic BTM1310Y monitor** A/B split screen, RGB, pulse cross, \$1,000. All include full new warranty and shipping! Call Greg LaDue (607) 687-0545, 9am-6pm EST.

### Facilities/Suites

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**A/B ROLL EDIT SUITE**, includes **Panasonic AU-60 Studio Recorder**, (2) **Panasonic AU-650 Studio Edit Recorder** with Auto Tracking, **Videotek Prodigy Composite Special Effects Generator**, **Paltek Elite Edit Controller** with **Serial Interfaces for Prodigy Switcher** & (3) **MII Recorders**, \$40,000.00. System is in full working order, all three decks have approx 1000 hrs on head. Call Scott Kase at (703) 620-0451.

### Tapes

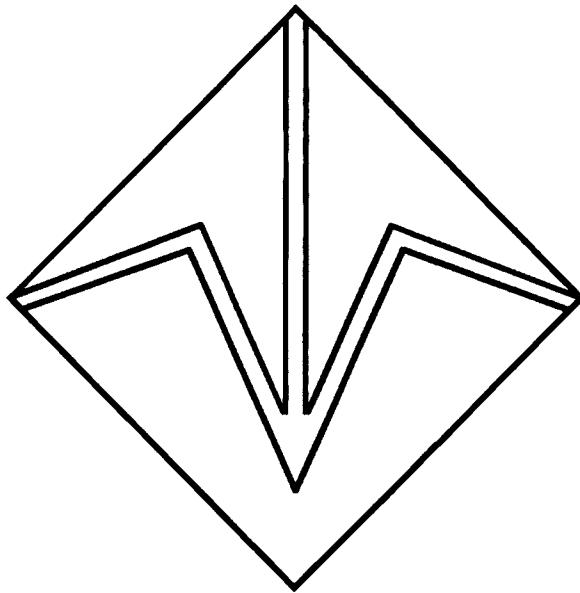
Used MII Tape, limited number of MII tapes, Large cassettes, 30's, 60's 90's and small 20's, Most with low passes, most with factory cases. Good for many purposes. Buyer pays the shipping charges. Contact Ed McKay or John Bishop at (704) 398-0046, or fax (704) 393-8407 (NC).

**New MII Cleaning Tapes**. 3 M20S, 3 M30L, MPL 90. Miscellaneous Used MII stock. Contact Melanie West-Pond, (404) 355-3398.

If you have equipment you would like included in the next Trading Post, please contact us in writing, either by fax or mail at MII Users Association of America, c/o GMG International Inc., 1950 Roland Clarke Place, Suite 100, Reston, VA 22091, fax (703) 620-0451, toll free 800-966-1030. *Please contact us when the equipment is sold.* □

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Sections-

- 1.0 - Upper Drum
- 2.0 - AC Head Stack
- 3.0 - Field Cleaning the Portable Unit
- 4.0 - Tape Path
- 5.0 - Cleaning the Pinch Roller
- 6.0 - Cleaning the Capstan
- 7.0 - Cleaning the Posts
- 8.0 - Cleaning the Fixed Posts
- 9.0 - Brush Assembly
- 10.0 - Cleaning the Earthing Assembly
- 11.0 - Final Disassembly and Cleaning
- 12.0 - Emergency Tape Unloading Procedures  
(+ Conclusion)

### (II.) LESSON 2 UPPER DRUM REPLACEMENT AND ELECTRICAL ALIGNMENT

Sections-

- 1.0 - Cleaner Roller Removal
- 2.0 - Mounting of Fixing Plate for Tip Protrusion Gauge
- 3.0 - Video Head Tip Protrusion for Measurement
- 4.0 - Removal of Upper Drum Assembly
- 5.0 - Upper Drum Re-assembly
- 6.0 - Eccentricity Gauge Adjustment
- 7.0 - Simplified At "x" Valve Adjustment

### (III.) LESSON 3 APPLICATIONS AND OVERVIEW (Including basic troubleshooting)

Sections-

- 1.0 - Introduction
- 2.0 - Stand Alone Single Machine Configuration
- 3.0 - Machine to Machine (cuts only applications)
- 4.0 - A/B Roll Editing Systems
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# Monthly Survey Questions

Please Respond! Thank you to those who responded to last months survey.

*Each month, the Users Association polls users on specific MII issues and publishes the results in the next newsletter. Please read the Panasonic battery article in this newsletter and take a few minutes to fill out this survey. This month, we are interested your opinion about and experience with batteries, specifically AU-BP220s and the AU-B420 charger.*

(1) Do you own an AU-B420 battery charger and AU-BP220 batteries?  yes  no

If not, what charger/batteries do you own? \_\_\_\_\_

(2) How long have you had them? \_\_\_\_\_

(3) How long did they last before their performance began to decline? \_\_\_\_\_

(4) With what did you replace them once they no longer worked? \_\_\_\_\_

(5) Did you follow the charging instructions in the manual?  yes  no

(6) Have your batteries ever developed a memory problem? If so, were you able to recondition them? \_\_\_\_\_

(7) Are you happy with the performance of your batteries and charger?  yes  no

(8) Would you buy the same batteries and charger again?  yes  no

(9) Comments regarding this survey or the Panasonic battery article \_\_\_\_\_

*It is important for the membership that you respond to these questions, either by mail, phone or fax as soon as possible. Thank you for your input. 24-hour fax line (703) 620-0451 Phone (800) 966-1030 or (703) 620-6000.*

MII Users Association of America  
c/o GMG (International), Inc.  
1950 Roland Clarke Place, Suite 100  
Reston, VA 22091

*Optional*

Name \_\_\_\_\_

Company \_\_\_\_\_

Phone \_\_\_\_\_

## December Survey Responses

*Each month the Users Association will poll users on specific MII issues and publish the results in the next newsletter. In this issue we are sharing the results of our questions from the December issue regarding Panasonic service and literature.*

(1) Based on your past experience, how would you grade the service and support available for your MII Equipment?

Excellent 50% Good 25% Fair 25% Poor 0%

- ♦ Support (Parts) Excellent
- ♦ Initially when we had a problem (big!) with the AU-56H's, we were ignored until other station facilities had started experiencing the same problem.
- ♦ Specialized Communications has consistently done an excellent job for me.
- ♦ I have only had one or two problems, and they were quickly cared for by Panasonic

(2) Have you found the Project 2000 Enhanced Technical Support Program to be helpful?

Yes 37.5% No 25% No use for program 12.5% Unfamiliar with program 25%

- ♦ Response has been great. Two engineers received very good training with Panasonic, and Yvonne and Co-worker are Panasonic Parts to us!

(3) How would you rate Panasonic Service Literature overall?

Excellent 25% Good 25% Fair 0% Poor 12.5% Didn't know they had literature 37.5%

- ♦ Very good improvement since early manuals, ie. AU-650, 500, 400.
- ♦ Can't know -- several things I have found in the book don't agree with PC boards
- ♦ Sporadic, if at all! What literature? They have literature?
- ♦ I have found the materials to be very helpful

(4) Have you been able to obtain from Panasonic whatever literature you need in a reasonable period of time?

Yes 50% No 12.5% Have never requested literature 37.5%

- ♦ Have no idea who to deal with anymore - paid for it back in September, have yet to receive anything

(5) How would you rate your local dealer in the area of customer service?

Excellent 25% Good 25% Fair 12.5% Poor 0% Don't have local dealer 37.5%

- ♦ We bought the equipment from "Videomedia," but they don't handle it anymore -- don't know of a local dealer
- ♦ Dealer - Direct Broadcast TV Systems (good)
- ♦ Washington Professional Systems have been cooperative, and their service is good

# MII Users Association of American Membership Listing

Alabama	Arizona	California	Florida	Georgia	Hawaii	Illinois	Indiana	Iowa	Kansas	Louisiana	Maine	Michigan	Minnesota	Mississippi	Missouri	Montana	Nebraska	North Carolina	North Dakota	Ohio	Oklahoma	Oregon	Pennsylvania	Rhode Island	Tennessee	Texas	Utah	Vermont	Virginia	Washington	West Virginia	Wisconsin	Wyoming
Alabama Power Co. Randy Cook 600 North 18th St. Birmingham, AL 35291	ARC Productions Kit/Robin Hout 1145 Granite Creek Lane Chino Valley, AZ 86323 (602) 636-4676 MII Owner	Sigma Broadcasting PO Box 4150 Ft Smith, AR 72914 (501) 783-4040 MII Owner	Gibson Best 119 Driftwood ste 14 Marina Del Ray, Ca 90292 (310) 827-9100 MII User	First Light Video Publishing Anny Romanooff 8536 Venice Blvd Los Angeles, CA 90034 (310) 558-7880 MII User	King Video Cable Alex Staten Advertising Production Dept. 22620 Market Street Santa Clarita, CA 91322 (805) 259-7646 MII Owner	Nelson Media Group Bill Nelson 951A Valhalla Bakersfield, CA 93309 (805) 833-8313 MII Owner																											
Alabama Power Co. Len Holland, 600 North 18th St. Birmingham, AL 35291	COVID Imre A. Caesar 1725 W. 17th St. Tempe, AZ 85251 MII User	Video Pro Productions T Hall PO Box 1694 Pine Bluff, AR 71613 MII User	Bluewater Productions Bill Rosenthal 3205 Production Ave Ste E Oceanside, CA 92054 (619) 721-1951	Gene Gordon Studios Gene Gordon 1746 W Katella 3 Orange, CA 92667	Kolb Entertainment Kenneth Kolb 14380 Football Blvd #26 Sylmar, CA 91342 (818) 362-6753 MII User	North American Television Jim Ren Huang 10355 E. Ruath St El Monte, CA 91733 MII User																											
Alabama Power Co. Bob Howard, 600 North 18th St. Birmingham, AL 35291	Del Sol Productions Ruben Ruiz 19 W. Ventura Tucson, AZ 85705 MII Owner	Acc Kutsuna 533 21st Pl Santa Monica, CA 90402 MII Owner	Broadcast Store Barry Snybert 1840 Flower Street Glendale, CA 91201 (818) 551-5875 Dealer	Grace Video Maynard Dennis Grimm 34476 Cobble PI Fremont, CA 94555 (510) 794-8365 MII Owner	KRBK-TV Annette Wegesend 500 Media Pl. Sacramento, CA 95815 (916) 929-0300 MII Owner	Odetics Broadcast Gene Zimmerman Jr 1515 S Manchester Ave Anaheim, CA 92802-2907 (800) 243-2001 Manuf.																											
AUVID Productions Int'l Inc. Paul D. Kennemer, Sr. PO Box 1933 Huntsville, AL 35807 (205) 534-4666 MII Owner	19 W. Ventura Tucson, AZ 85705 (602) 622-1515 MII Owner	ADV Tech Thomas Huckle 8057 Crossbridge Rd Dublin, CA 94568 (415) 833-6031 MII Owner	Cal Poly San Luis Obispo Peter Woodworth Audio Visual Services Dept. San Luis Obispo, CA 93407 (805) 756-7197 MII Owner	Grass Valley Group Don Davis P.O. Box 1114, Mail Stop N3-2H Grass Valley, CA 95945 (916) 478-3097 Manuf.	KUSI Richard Lange 4757 View Ridge Ave San Diego, CA 92123 (619) 571-3151 MII Owner	Paltek International Jim Owen 2752 Walnut Ave Tustin, CA 92680 (714) 669-8322 Manuf.																											
AUVID Productions Int'l Inc. Nancy Kabajian PO Box 1933 Huntsville, AL 35807 (205) 534-4666 MII Owner	3019 E Southern Ave Phoenix, AZ 85040 (602) 243-3333 MII Owner	KTVW Bruce Sherman 8057 Crossbridge Rd Dublin, CA 94568 (415) 833-6031 MII Owner	Chiaverini Video Productions Doug Chiaverini 4030 N. Palm Ste 306 Fullerton, CA 92635 (714) 526-3388 MII Owner	GRC Electronics Greg Capello 1181 Pioneer Way El Cajon, CA 92020 (619) 464-6446 MII Repair	KVCR-TV Don Fertita 701 S Mt Vernon st San Bernardino CA 92410 (909) 888-6511 x1325 MII Owner	Panasonic Robert C. Patch 6650 Rataela Ave. Cypress, CA 90630																											
Custom Supply, Inc. B.J. Purcell 2509 5th Ave. South Birmingham, AL 35233 (205) 252-0141 MII Dealer/Repair Center	209 W. Elm St. Tucson, AZ 85705 (602) 792-2270 MII Owner	AME Inc. Larry Cohen 5510 Cleon Ave. N.Hollywood, CA 91601 (800) 336-3827 MII Owner	Clockwork Studios Chris Petrin 10695 Trema Street Suite 106 San Diego, CA 92131 (619) 464-8433	GRC Electronics Greg Capello 14082 Valley Springs Road Poway, CA 92064 (619) 464-6446	KUSI Richard Lange 4757 View Ridge Ave San Diego, CA 92123 (619) 571-3151 MII Owner	Philips interact media POV Entertainment David White 325 E Hillcrest ste 250 Thousands Oaks, Ca 91362 (805) 371-1300 MII Owner																											
DCH Regional Medical Center Larry Parker 809 University Blvd E. Tuscaloosa, AL 35401 (205) 759-7332 MII Owner	MACROLEASE George Goodman 10802 N 19th Ave. Phoenix, AZ 85029	AME Inc. Chip Vining 5510 Cleon Ave. N.Hollywood, CA 91601 (800) 336-3827 MII Owner	Compact Video Group, Inc. John Donlon 2813 Alameda Ave Burbank, CA 91505 (818) 840-7000 MII Owner	Group Video Broadcast Services Jerry Casey 10364 Rockingham Drive Sacramento, CA 95827 (916) 362-3964 MII User	LBCC Media Stephen Clayton 10555 Wof Rd STE B 14 Long Beach, CA 90808	Pioneer John Mitchell 915 East 230th St Canton, CA 90745 (310) 522-8600 MII User																											
First Frame Video Services David Black 2440 Winderidge Dr. Birmingham, AL 35244 (205) 988-3267 MII Owner	Pima College Keti Gunnberg 1901 N Stone Tucson, AZ (877) 508-5080 (602) 884-6803 MII User	Assoc. Elec. Gene Hustling 3585 Cadillac Ave Costa Mesa, CA 92626 (714) 850 9342 MII Owner	Corporate Video Productions Richard Frazier PO Box 1916	Hammar Communications Peter Hammar 1 Palmer Building 1475 Old Country Rd. Belmont, CA 94002 (415) 508-8182 MII User	LLAPA Bill Dumbleton PO Box 8005 Emeryville, CA 94662 (510) 654-5251 MII User	Precious Memories Video Chuck Hashim 320 East 18th St. Bakersfield, CA 93305 (805) 322-6245 MII User																											
Flint Hill Productions Charles & Mary Golden 255 S. Charlton CT Montgomery, AL 36117 (205) 277-7760 MII Owner	Troxell James Chalifoux 4830 S. 38 St. Phoenix, AZ 85040 (800) 352-7912 Dealer	Audiolab Electronics, Inc. Ron Stefan 5831 Rosebud Ln Bldg C Sacramento, CA 95841 800-624-1903 Manufacturer	AudioLab Electronics, Inc. Ron Stefan 5831 Rosebud Ln Bldg C Sacramento, CA 95841 800-624-1903 Manufacturer	Horizon Christian Fellowship Roger Vane PO Box 17480 San Diego, CA 92117 (619) 277-4991	Magic Motion Film and Video Ron Shaw P.O. Box 16213 N. Hollywood, CA 91615 (818) 769-4655	Professional Desktop Video Systems Dave Love 6922 San Fernando Rd Glendale, CA 91201 (800) 862-7820 (818) 848-9127 MII Owner/Supplier																											
Industrial Communications Inc Mike Cornelius PO Box 190201 Birmingham, AL 35219 MII Owner	Vaughn Duplication Services Jim Lawson 3802 East University Drive Suite 2 Phoenix, AZ 85034 (800) 228-7609 MII Owner	Audio Video Supply Joyce Wozniak 4575 Ruffner St. San Diego, CA 92111	Audio Video Supply Patrick Birch 4575 Ruffner St. San Diego, CA 92111	DNF Industries Eve Norell 1032 North Sweetzer Ave Suite 212 W. Hollywood, CA 90466 MII User	Horizon Christian Fellowship Roger Vane PO Box 17480 San Diego, CA 92117 (619) 277-4991	Metronomics Lou Wilson 3808 Catalina Los Alamitos, CA 90720 (310) 430-3309 MII Dealer																											
Openshaw Productions Andy Openshaw 3195 Cahaba Heights Suite 9 Birmingham, AL 35243 (205) 970-9041 MII Owner	Video Technical Services Chip Harold 925 West Baseline Rd Tempe, AZ 85283 (602) 831-2760 Dealer	Audio Video Supply Barry Diamond 4575 Ruffner St. San Diego, CA 92111	Audio Video Supply Patrick Birch 4575 Ruffner St. San Diego, CA 92111	Don Brown Productions Don Brown 1429 W. Collins Ave. Orange, CA 92667 (714) 251-1926 MII Owner	International Video Preview Jerry Jeasec 1177 Quarry Ln Unit F Pleasanton, CA 94566	PSICOR Inc. Harry Hoerr 16818 Via del Campo Ct San Diego, CA 92127 (619) 485-5599 x 7135 MII User																											
WAFF-TV 48 Keith Ward 1414 N. Memorial Pkwy Huntsville, AL 35804 (205) 533-4848 MII User	5 Star Video Randy McFarland 1112 Garrison Ave Ft Smith, AR 72901 (501) 782-1332 MII Owner	Audio Video Supply Paul Burkhardt 4575 Ruffner St. San Diego, CA 92111	Eagle Leasing Kathi Klein 3000 E. Birch St Suite 108 Brea, CA 92621	ITD Productions Herbert Kellner, Ph.D. 1561 Madrid Dr Vista, CA 92083 (619) 598-8451 MII Owner	Miles Media Corp Richard Miles 4200 Glenbrook Ave Bakersfield, CA 93306-2222 (805) 873-1663 MII User	Real Estate Television Chris Gonzalez 3540 Calian Blvd ste 205 San Francisco, CA 94080-5553 (415) 872-1243 MII User																											
Womans Missionary Union Stan Hill PO Box 830010 Birmingham AL 35283-0010 (205) 9914929 MII Owner	Arkansas Farm Bureau Keith Gamson PO Box 31 Little Rock, AR 72203 Supplier	Audio Visual Headquarters Richard Farnham 2300 Gladwick Rancho Dominguez, CA 90220 (310) 885-4200 Supplier	Editing Technologies Corp. Sam Kondoz 11992 Challenger Court Moorpark, CA 93021 (805) 529 7074 Manufacturer: Edit Systems	IVS, Inc. Ray Dunn 7925 Auburn Blvd Citrus Heights, CA 95610 (800) 745-6601 Leasing	Motion Blur Publishing David Duberman 915A Stanbrough St. Redwood City, CA 94063 MII Owner	RF Industries LTD Les Perlman 7620 Miramar Rd San Diego, CA 92126																											
Alaska	KTOO-TV CCBI Jack McKain 224 Fourth st Juneau, AK 99801 (907) 586-1670 MII Owner	Clarks Video Productions Tim Clark 1206 N 8th St Rogers AR 72756 (501) 636-8599 MII Owner	BAVC Luke Homes 1111 17th st San Francisco, CA 94107 (415) 861-3282 MII User	KATZ Inc. Rich Borowy PO Box 960 Lucerne Valley, CA 92356 MII User	NBC Jim Smith 3000 W. Alameda Ave Rm 4359 Burbank, CA 91523 (818) 840-4281 MII Owner	R.T. Forney & Associates 28 Southbrook, STE 4 Irvine, CA 92714 (714) 551-9062 MII Owner																											
KYUK-TV (Bethel Broadcasting) Mike Martz Pouch 468 Bethel, AK 99559 (907) 543-3131 MII Owner	KHOG Marvin Macedo PO Box 1029 Fayetteville, AR 72701 (501) 521-1010 MII Owner	Bay Cable Advertising Jim McCuin 20902 Cabot Blvd Hayward, CA 94545 (510) 732-7320 MII Owner	Electronic Design & Service Sam Kondoz 6922 San Fernando Rd. Glendale, CA 91201 (818) 843-6199 MII Owner/Dealer	KCRA Marty Main 3 Television Cir Sacramento, CA 95814-0794 (916) 325-3255 MII User	NBC Mr. J. Schoedier 3000 W. Alameda Ave Burbank, CA 91523 MII Owner	R-VCR Larry Dean 4055 Guasti Rd ste 107 Ontario, CA 91761-1521 (909) 984-6492 MII User																											
KYUK-TV (Bethel Broadcasting) Mike Martz Pouch 468 Bethel, AK 99559 (907) 543-3131 MII Owner	KTHV Chuck Weaver 720 Izard St Little Rock, AR 72209 MII Owner	BCS Les Spitzer, 1840 Flower Street Glendale, CA 91201 (818) 551-5858 MII User	Mohammed Farshad 19141 Keweenaw St. Reseda, CA 91335	Mohammed Farshad 19141 Keweenaw St. Reseda, CA 91335	NBC Sports Jack Simmons 3000 W. Alameda Ave Rm 4359 Burbank, CA 91523 (818) 840-4290 MII Owner	Shahr Farang TV Parviz Kardan PO Box 16273 Encino CA 91416 (818) 702-0091 MII User																											
KYUK-TV (Bethel Broadcasting) Mike Martz Pouch 468 Bethel, AK 99559 (907) 543-3131 MII Owner	KTHV Chuck Weaver 720 Izard St Little Rock, AR 72209 MII Owner	KTHV Chuck Weaver 720 Izard St Little Rock, AR 72209 MII Owner	Shooby-Dooby Duping Terrence West 1429 W. Collins Ave. Orange, CA 92667 (714) 744-4041 MII Owner																														

Spot Productions Frank Vanella 5343 Birch Grove Dr. San Jose, CA 95123 (408) 224-1500 MII Owner	Unitel Video Mark Miller 3330 Cahenga Blvd, West Los Angeles, CA 90068 (213) 878-5800 MII Owner	Business Planning Svcs John Giambano 1037 Elm St. Pueblo, CO 81004	Optical Audio Productions Mike Koury P.O. Box 2243 Fort Collins, CO 80522 (303) 484-5535 MII Owner	<b>Delaware</b>	WRC-TV Harris Sullivan 4001 Nebraska Avenue Washington, DC 20016 (202) 885-4133 MII Owner	Channel 20 Julie Breschbill 215 N. Olive Ave, Suite 100 West Palm Beach, FL 33402 (407) 355-4573 MII Owner	
Studio Spectrum Ken Buckowski 1056 N. Lake St. Burbank, CA 91502 (818)843-1610 Dealer	Vaughn Duplication Services Paul Taylor 2465 Campus Dr., Ste M Irvine, CA 92715 (714)252-0190 MII Owner	Davis Audio-Visual, Inc. Richard Davis Howard Goldbaum 2100 Clay St. Denver, CO 80211 Dealer	Rocky Mt Audio Video Terry Tally 4301 S Federal Blvd 101 Englewood CO 80110 (303) 730-1100 MII User		WRC-TV Ron Thorpe 4001 Nebraska Avenue Washington, DC 20016 (202) 885-4012 MII Owner	Channel 20 Scott Monaghan 215 N. Olive Ave, Suite 100 West Palm Beach, FL 33402 (407) 355-4239 MII Owner	
Take 2 Video Mark Wilson 38964 Kenneth Ct Cherry Valley CA 92223 (909) 845-9748 MII User	Video Post Production Nasser Adeshir P.O. Box 317 Verdugo City, CA 91046 (818) 903-2885/957-7851 MII Owner	Davis Audio-Visual, Inc. Peter Blaney 19 West La Vages Colorado Springs, CO 80903 Dealer	VU Videos Eric Wheeler 1420 Blake Street Denver, CO 80202 (800) 637-4336 Supplier		WRC-TV Mike Benetato 4001 Nebraska Avenue Washington, DC 20016 (202) 885-4139 MII Owner	Composite Video Service Bill Cortello 11100 66th St.N. Suite 27 Largo, FL 34643 (813) 346-6407 MII Owner	
Take 2 Video Gerry Wilson 4597 Warm Springs Rd Glen Ellen CA 95442 (707)938-2332 MII User	Video Proofs George Banch 560 Martin Ave Studio D Rohnert Park, CA 94928 (707)586-0383 MII Owner	Davis Audio-Visual, Inc. 19 West La Vages Colorado Springs, CO 80903 Dealer	Windstar Studios Mike Wemple 525 Communications Cir. Colorado Springs, CO 80905 (719) 635-0422 MII Owner	<b>District of Columbia</b>	Anacostia H.S. Fred Alarod, RM 228 16th & R St., SE Washington, DC 20020 MII User	Computer Power, Inc. Glenn Caton 661 Riverside Ave Jacksonville, FL 32204 (904)359-5135 MII Owner	
Tele-Video Production Services Jon Solander 600 Grand Ave Suite 401 Oakland, CA 94610 (510)893-0555 MII Owner	Vision Star Productions Mike Strauss 2465 Campus Dr Suite 15 Irvine CA 92715 (714) 852-9927 MII User	FRCC Media Center David Alan Sacher 3645 W 112th Ave Westminster, CO 80030-2199 (303)429-2755 MII User	ANGELSEA Productions Craig Tomlin 55 Russ St. Hartford, CT 06106 (203)241-8111 MII User		C-SPAN Brian Lockman 444 North Capitol Street Suite 412 Washington, DC 20001 (202) 737-3220 MII Owner	AAACHEN Productions George Phelps 11261 S.W. 17th St. Miami, FL 33157 (305) 255-9563 MII Owner	
Tentel Wayne Graham 4475 Golden Foothills Plow El Dorado Hills, CA 95630 (800) 538-6894 Manuf.	Walt Davis Enterprises Doug O'Connor 931 N Cole Ave Hollywood CA 90038 (213)461-0700 Dealer	Group Publishing David Priest PO Box 481 Loveland, CO 80539 (303)669-3836x267	Anton Bauer Bruce Malam 1 Controls Dr. Shelton, CT 06484 (203) 929-1100 Manuf.		C-SPAN Tim Dombro 400 North Capitol Street Suite 650 Washington, DC 20001 (202) 737-3220 MII Owner	ABC1 Productions Alden Shipley 4401 Collins Ave. Suite CU12 Miami Beach, FL 33140-2518 (305) 864-0800 MII Owner	
The Video Production Co. of America Walter Knox 4750 Topeka Dr. Tazvana, CA 91356 (818) 343-4896 MII Owner	Walt Davis Enterprises Geof Barron 931 N Cole Ave. Hollywood CA 90038 (213) 461-0700 Dealer	Tom Houston 3321 Apple Ave Loveland, CO 80538 (303)667-2001 MII Owner	Anton Bauer Michael Malcy 1 Controls Dr. Shelton, CT 06484 (203) 929-1100 Manuf.		C-SPAN Tim Dombro 400 North Capitol Street Suite 650 Washington, DC 20001 (202) 737-3220 MII Owner	Airtime Productions Brooks Reid 6490 SW 113th Miami, FL 33156 (305) 666-0925 MII Owner	
Toaster Marmalade Mark Stross 4842 Via Colina Los Angeles, CA 90042 (213)259-9033 MII Owner	WHTV-TV Venture Technologies Donald Wilson 23642 Calavas Rd Ste 104 Calabasas, CA 91302	KCD Ted Chavez 9952 Eastman Park Dr. Windsor, CO 80551 (303) 686-4640 MII Owner	Cinemat Tim Schult 127 Main St. N. Woodbury, CT 06798 (203)263-0006 MII Owner		C-SPAN Bill Conover 400 North Capitol Street Suite 650 Washington, DC 20001 (202) 737-3220 MII Owner	ASC A Dan Block 2860 Armadillo Tr. Tinrus, FL 32780 (407) 269-1303 MII Owner	
Total Digital Alan Nguyen 516 S Deming St Santa Ana CA 92704 (714)531-8896 MII Owner	Wilderness Production Mike Conway PO Box 10260 S. Lake Tahoe, CA 96158 (916)577-3008 MII Owner	KCNC-TV David Layne 1044 Lincoln St Denver, CO 80203 (303) 830-6426 MII Owner	Conover Production Services Bob Conover 116 M Research Dr Milford CT 06460 (203) 877-5427 MII User		C-SPAN Tim Masters 400 North Capitol Street Suite 650 Washington, DC 20001 (202) 737-3220 MII Owner	Encore Broadcast Sales Ron Lyman 6313 Benjamin Rd. Tampa, FL 33634 Dealer	
Triangle Video Martin Gehler 11300 Hartland St N Hollywood, CA 91605- 6309	Wilderness Video Robert Ghusic 24200 Alizene Ave. Lomita, CA 90717 (310) 539-8573 MII Owner	KCNC-TV Larry Ries 1044 Lincoln St Denver, CO 80203 (303) 830-6341 MII Owner	Insight Tom Carroll 288 Fillow St. Norwalk, CT 06850 (203) 853-1115 MII Owner		C-SPAN Marianne Woody 400 North Capitol Street Suite 650 Washington, DC 20001 (202) 626-4604 MII Owner	Encore Broadcast Sales John Barker 9350 NW 16th St. Plantation, FL 33322	
Tripp Communications Sales 1717 Solano Way #24 Concord, CA 94520 (510) 686-1801 MII User	World Image Inc Sherian Yadegari 9186 W Pico Blvd Los Angeles CA 90035 (310)853-2742 MII User	KCNC-TV Don Stangulski 1044 Lincoln St Denver, CO 80203 (303) 830-6313 MII Owner	Quinnipiac College Bruce Carpenter Mt Carmel Ave Hamden, CT 06518 MII User		C-SPAN Department of Veteran Affairs George Brown Communications 810 Vermont Ave, NW Washington, DC 20420 MII User	Florida Video Systems Chuck Bachus PO Box 130702 Ft Lauderdale, FL 33313 (305)688-6618 Dealer	
Tri-Vally Community TV Jack Oliver 4663 B Bernal Ave. Pleasanton, CA 94566 (510) 462-3030 MII Owner	Your Video Productions Jen Ann Severson 2183 Fairview Rd, Ste. 104 Costa Mesa, CA 92627 (714)645-9687 MII Owner	KOAA-TV Ken Renfrow PO Box 195 Pueblo CO 81002 (719)544-5781 MII Owner	TRV Fastcom Sports TV Production Bruce Edwards PO Box 52 West Mystic, CT 06388 (203) 572-8220 MII Owner		C-SPAN House Recording Studios Rick VanWinkle B310 Rayburn Building Washington, DC 20513 (202) 225-3941 MII Owner	Fontaine & Epstein Assoc. Harry Epstein 8321 NW 7th St Apt 115 Miami, FL 33126-3916	
Troll Mngt Company Sonja Woelner 6312 Santa Ana Cyn Rd 111 Anaheim Hills CA 92807 (714) 524-2050 MII User	Advanced Audio Video Philip Yun 7700 E. Iliff, Suite H Denver, CO 80231 (800) 368-0406 MII Owner	KOAA-TV Ed Ehls 2200 7th Ave Box 195 Pueblo CO 81003 (719) 544-5781 MII User	VideoPlay Industries Rich Gibre Route 30 Tolland Industrial Park PO Box 800 Rockville, CT 06066 (203)875-5211 MII Dealer		C-SPAN Department of Veteran Affairs George Brown Communications 810 Vermont Ave, NW Washington, DC 20420 MII User	Full Sail Jim Michael 3300 University Blvd Winter Park, FL 32792 (407) 679-0100 MII Owner	
Truckee River Studios Larry Beldon 1680 Diablo Vista Rd Alamo, CA 94507 (510) 543-7192 MII Owner	Advanced Audio Video Jeffrey Coraggio 7700 E. Iliff, Suite H Denver, CO 80231 (800) 368-0406 MII Owner	Martin Marietta Jim Pirtle Falcon AFB Colorado Springs, CO 80912 (719) 380-2352 MII Owner	WTXX-TV Charles Allen 414 Meadow St. Watertown, CT 06702 (203)575-2020 MII Owner		C-SPAN House Recording Studios Rick VanWinkle B310 Rayburn Building Washington, DC 20513 (202) 225-3941 MII Owner	Broadcast International Group Gizelle Vargas 8280 NW 27th St Ste 515 Miami, FL 33122 (305) 599-2112 MII User	Genda Broadcasting Corp Michael Luisi 2800 Biscayne Blvd, STE 700 Miami, FL 33137 MII Owner
UC B/HIS Broadcasting NE Peterson 8990 Gaddini Rd Winten, CA 95694 MII User	American Magnetic Media Steve Helmick 5580 Havana Unit 6A Denver, CO 80239 (800) USA-TAPE MII Owner	Mesa Media Jeff Bahoe 6939 W 25 Pl Lakewood, CO 80215 (303)237-9409 MII User	WTXX-TV George Parson 37 Peach Orchard Rd Prospect, CT 06712 (203)758-3905 MII Owner		C-SPAN National Credit Union Administration Bob Parks 1776 G St. N.W. Washington, DC 20456 MII Owner	Harry Breitnreier 1365 McMullen Booth Clearwater, FL 34619 (813)726-2024 MII Owner	Graphics Dept. Lawrence Kohl 3100 Coral Way Miami, FL 33145
UCLA-Behavioral Sciences Media Lab NPI Gary Lord 760 Westwood Plaza Los Angeles, CA 90024 (213) 825-0448 MII Owner	American TV & Communications David Franklin 160 Inverness Dr. W. Englewood, CO 80112 (303) 799-1200 MII Owner	American Magnetic Media Steve Helmick 5580 Havana Unit 6A Denver, CO 80239 (800) USA-TAPE MII Owner	WTXX-TV Ron Barnes 37 Peach Orchard Rd Prospect, CT 06712 (203)758-3905 MII Owner		C-SPAN Orga. of American States TV Unit Bob Bernhardt 17th & Constitution Avenues Washington, DC 20006 (202) 438-3985 MII User	CBF Media Centre Bob Bernhardt 3400 Raleigh St. Hollywood, FL 33021 (305) 964-2940 MII Owner	Industrial Video Technology Inc. Lisa Heyder 2120 Hollywood Blvd. Hollywood, FL 33020 (305)262-RENT New/Used Eqpt Dealer
United Media Leslie Ricci 4771 E. Hunter Anaheim, CA 92807 MII Owner	Multi-Magnetics, Inc. John Simon 10336 S. Dransfeldt Rd. Unit 6 Parker, CO 80134 (800)732-7768 MII Owner	WTXX-TV Mike Koury P.O. Box 2243 Fort Collins, CO 80522 (303) 484-5535 MII Owner	The Media Group Keith Lamp 4710 Eisenhower Blvd, Ste C4 Tampa, FL 33634 (813)886-8266 MII Owner		C-SPAN Centeroom Inc. Keith Lamp Andrea Stelter 1118 22nd St., NW Washington, DC 20037 (202) 833-4461 MII User	Centeroom Inc. Keith Lamp 4710 Eisenhower Blvd, Ste C4 Tampa, FL 33634 (813)886-8266 MII Owner	Lakeland Regional Medical Center Education Dept. Ryan Lee 1324 Lakeland Hills Blvd. Lakeland, FL 33805 (813) 687-1127 MII Owner

Lockheed Space Operations Miles Placek 1748 W Cheryl Dr Winter Park FL 32792 (407)867-3875 MII User	Solid Waste Authority Rick Schneider 7501 N Jog Rd. West Palm Beach, FL 33412 (407) 640-4000 MII Owner	<b>Georgia</b> Artistic Video Sells Douglas Keltz 5975 Boswell Rd. Ste 321 Atlanta, GA 30328	Vaughn Duplication Services Rick Gauthier 2700 NE Expressway Bldg A, Ste 200 Atlanta, GA 30345 (404)728-9025 MII Owner	Illinois 3 A B N Moses Primo PO Box 220 W Franklin, IL 62896 (618) 627-4651 MII User	Millikin University Ronnie Dean 1184 W. Main Decatur, IL 62522 (217) 424-6254 MII Owner	Video FX Stuart Soifer 400 Jefferson Ct Wheeling, IL 60090 MII User
Lockheed Space Operations Clyde Smith LSO 350 TRM 029 Kennedy Space Center, FL 32899 (407) 867-3875 MII User	U.S. Air Force Wright Laboratory WL/MNGI Don Snyder Eglin AFB, FL 32542 (904)882-9911 MII User	Atlanta Duplication Atlanta Duplication Dan Nobels 4330 Royal Mustang Way Lithonia, GA 30058 (404)978-1299	Video Copy Services Rick Stevens 1699 Tullie Circle Ste 117 Atlanta, GA 30329 (800)553-3616 (404)321-6933	3M Tape Sales Dave Rahmow 908 N. Elm St. Hinsdale, IL 60521 (800) 942-3961 Manuf.	Mirage Video Communications Inc Richard Sulko 12413 S. Haven Ave. Palos Heights, IL 60463 (708) 448-0636	Video Production Group Mark Wilder 511 Court St Pekin, IL 61554 (309)353-6158 MII Owner
Lockheed Space Operations Ed Mikulas MS LSO 110 Kennedy Space Center, FL 32899 (407)867-2280 MII Owner	Valencia College Keith Foston Film Technology Program, Mail Stop 3-2 701 N. Econlockhatchee Trail Orlando, FL 32825 (407) 299-5000 x2415 MII Owner	Atlanta Video Production Center Joseph Gora 1570 Northside Dr. NW 240 Atlanta, GA 30318 (404) 355-3398 MII Owner	Video Duplication Skip Lewis 3095 Presidential Dr. Ste F Atlanta, GA 30340 (800) 235-9732 MII Owner	Bible Students Publications George Tabac 900 Brentwood Bensenville, IL 60106 (708) 595-0984 MII Owner	NBC Mr. T. Powers 454 N. Columbus Dr Chicago, IL 60611 MII Owner	Video Replay Ron Normsky 118 West Grand Ave. Chicago, IL 60610 (312)467-0425 MII Owner
Lockheed Space Operations Robert Simmer MS LSO 115 Kennedy Space Center, FL 32899 (407) 867-2280 MII Owner	Valencia College Jim Barber Film Technology Program, Mail Stop 3-2 701 N. Econlockhatchee Trail Orlando, FL 32825 (407) 299-5000 x2415 MII Owner	IBM Victoria Pendleton 3100 Windy Hill Rd. Internal Zip WE1C1 Marietta, GA 30067 (404) 835-3492 MII Owner	Video Supply Sales Co. Mark Radford 3440 Oakcliff Rd. Suite 112 Atlanta, GA 30340 (404) 458-2468 Deals	Bloomquist & Associates, Inc. Dick Bloomquist 828 N. Addison Ave Elmhurst, IL 60126 (708) 530-4077 MII Owner	Norwest Communications, Inc. Mark Karme 123 S. Hough St. Barrington, IL 60010 (708) 381-3271 MII Owner	Video-Tech Production Alan Thunby P.O. Box 2251 1602 Mcrose Ct. Decatur, IL 62526 (217) 877-9422 MII Owner
MagneTech Michael Pardo 3941 SW 47th Ave. Ft Lauderdale, FL 33314 (305) 791-6711 MII Owner	Vaughn Duplication Services Ric Everett 5414 Beaumont Center Dr., Ste 202 Tampa, FL 33634 (813)867-3141 MII Owner	K&M Electronics 2620 Mtn Ind Park Ste F Tucker, GA 30084 (404) 934-2151 Repair Center	Videotography Inc Damon Smith PO Box 8263 Savannah, GA 31412 MII User	Business TV Associates Mark Hewittson RR 1, Box 71 McLean, IL 61754 (309) 874-2908 MII Owner	Panasonic Ted Ellsworth 9401 W Grand Ave. Franklin Park, IL 60131 Supplier	WGEM Brady Dressler 513 Hampshire Quincy, IL 62301 (217) 228-6618 MII Owner
Mayo Clinic Ass Floyd 4500 San Pablo Rd. Jacksonville, FL 32224 (904) 223-2672 MII Owner	Videocam Export Co. Irving Perez 7305 NW 36th Street Miami, FL 33166 (305) 592-2034 Dealer	Lewis Broadcasting Co. Juan Carlos Carrillo 7305 NW 36th Street Tampa, FL 33634 (912)925-0022 MII User	Zan Productions Roseann Bush 1189 Beech Valley Rd. NE Atlanta, GA 30306-3121 (404)872-0719 MII Owner	Centercom Inc. Vicky Jacobs 7120 Ridgeaway Lincolnwood, IL 60645 (708)675-1411 MII Owner	Provid Supply Regina Szpak 896 Webster Ln Deplaines, IL 60016 (708) 299-7832 Supplier	WICD-TV David Boyer 250 Country Fair Dr. Champaign, IL 61821 (217) 351-8300 MII Owner
Mayo Clinic Bill Wimsatt 4500 San Pablo Rd. Jacksonville, FL 32224 (904) 223-2008 MII Owner	Videocam Export Co. Irving Perez 7305 NW 36th Street Miami, FL 33166 (305) 592-2034 Dealer	Lithonia Lighting Mike Rogers Video Communications 1400 Lester Rd Conyers, GA 30207 (404) 922-9000 x2517 MII Owner	Hawaiian Image Video Ron Darby 44-401 Kaneohe Bay Drive Kaneohe, HI 96744 (808) 254-4644 MII Owner	Center Video Rex Balz 5615 W. Howard Street Niles, IL 60648 (800) 621-4354 Supplier	Southern Illinois University John Kautzer Campus Box 1775 Edwardsville, IL 62026 (618) 692-2230 MII Owner	WIFR-TV Willard Shears PO Box 123 Rockford, IL 61105 (815)987-5300 MII Owner
MedCom Group Rick Carr PO Box 7924 St Petersburg, FL 33704 (813)821-1130 Dealer	Video Factory Richard Pabis 1126 S. Division Ave Orlando, FL 32805 (407) 246-6316 MII Owner	Motion Visuals Pat Cooksey PO Box 43571 Atlanta, GA 30336 (404)696-2709 MII Owner	Hot Shot Productions Jim Abell PO Box 1297 Kapaa, HI 96746 MII User	College of Dupage TV Roger Ewald 22nd Lambert Rd Glen Ellyn, IL 60137 MII Owner	State Farm Insurance Gary Chambers 1 State Farm Plaza Bloomington, IL 61710 (309) 766-6176 MII Owner	WSBT AM-TV/WNSN FM Chris Thornton 300 W Jefferson Blvd South Bend IN 46601 (219)233-3141 MII User
Medfo, Inc. John P. Lenhart, MD 6110 9th St. N. St Petersburg, FL 33703 (813) 521-4130 MII Owner	Videotaping Services Inc Dale Sweet 1911 Manor Circle Dr Winterhaven, FL 33880 (813) 293-5916 MII Owner	National Video Exposure Clyde Land 5100 Kenny Dr. Atlanta, GA 30331 (404)344-1551 MII Owner	Kit Video Productions Bill George 1095 Kalapaki Street Honolulu, HI 96825 (808)395-1244 MII Owner	Copymaster Video Larry Stenger 711 E. Fairfield Ave. Villa Park, IL 60181 (708) 279-1276 MII Owner	State Farm Insurance Randy Smith 1 State Farm Plaza Bloomington, IL 61710 (309) 766-6176 MII Owner	WTVO Al Petzke 1917 N Meridian Rd Rockford, IL 61105 (815) 963-5413 MII Owner
Medfo, Inc. Dennis McDougall 6110 9th St. N. St Petersburg, FL 33703 (813) 521-4130 MII Owner	Video Techniques, Inc. Robert Lorentzen PO Box 9649 Bradenton, FL 34206-9649 (813)746-4949 MII Owner	Northwest Airlines, Inc. Bob Sharrett 1000 Inner Loop Road Atlanta, GA 30337-6072 (404)530-6955 MII Owner	Video Concepts Bob Ramacher 535 Lipoi Pkwy Kihei, Maui, HI 96753 (808) 879-1329 MII Owner	Matthew Curry 538 S. Pine Ave. Arlington Heights, IL 60005-2058 MII Owner	State Farm Insurance Steve Snyder 1 State Farm Plaza Bloomington, IL 61710 (309) 766-3368 MII Owner	WYCC-TV Donald Rhodes 7500 S. Pulaski Rd. Chicago, IL 60652 (312)838-4853 MII Owner
Media Concepts Bob Skidmore 559 49th Street South St. Petersburg, FL 33707 (813) 321-2122 Dealer	Vue-Com Inc. Marshall Ham 1126 S Division Ave Orlando, FL 32805 (407)423-7869 Dealer	Printpack, Inc. John Clover 4335 Wendell Dr. Atlanta, GA 30336 (404) 691-2538 x445 MII Owner	Video Concepts Kevin Harrington 535 Lipoi Pkwy Kihei, Maui, HI 96753 (808) 879-1329 MII Owner	Illinois Central College Tom Boyer 1 College Drive East Peoria, IL 61635 (309) 694-5397 MII Owner	Televant Video Services Don Shannon 6535 West North Ave Oak Park, IL 60302 (708) 383-5588 MII Owner	Indiana Ball State University Bill Cahoe University Media Services Muncie, IN 47306 (317) 285-1486 MII Owner
Multi Image Group Jim Ballentine 1080 Holland Drive Boca Raton, FL 33487 (800) 523-2682 Supplier	WDZL Bob Castillo 2055 Lee St. Hollywood, FL 33020 (305) 925-3939 MII Owner	Savannah College of Art & Design Ralph Grann 527 Indian St. Savannah, GA 31401 (912)238-2407 MII Owner	Video Lab Norm Nichols 641 Keeaumoku, Ste. 5 Honolulu, HI 96814 (808) 947-5227 MII Owner	JRC Productions Rob Aiello 1866 E Chisolm Dr Nampa ID 83687 (208)467-3301 MII User	IMAC Int'l Inc. Jacques Kauffman 1301 Greenwood Ave Wilmette, IL 60091-1623 MII Dealer/Repair Center	Ball State University Jim Scott University Media Services Muncie, IN 47306 (317) 285-1487 MII Owner
National Television Supply Chuck Bachus PO Box 130202 Ft Lauderdale 33313 (305) 748-2985 MII User	WFLA Mike Healy 903 E Jackson St Tampa, FL 33614 (813) 228-8888 MII Owner	Savannah College of Art & Design Stephen May 522 Indian St. Savannah, GA 31401 (912)238-2407 MII Owner	KIVI-TV John Conklin 1866 E Chisolm Dr Nampa ID 83687 (208) 464-4449 MII User	Kemper National Insurance Bill Demarco Don Conklin 1866 E Chisolm Dr Long Grove, IL 60049 (708) 244-9666 MII Owner	The Orenda Group Jim Riemersma 9848 South Winchester Ave Chicago, IL 60643 (312) 238-3378 MII Owner	Ball State University Chris Weyers BCW#179 Muncie, IN 47304 (317) 285-8185 MII Owner
Pat Appleson Studios, Inc. Pat Appleson 757 SE 17th St., Suite 358 Fort Lauderdale, FL 33316-2960 (305) 587-7900 MII Owner	WFTS Luis Romero 4501 E Columbus Dr Tampa, FL 33605 (813) 623-2828 MII Owner	Strickland Video & Film Support John Strickland 2972 Chipmonk Trail Marietta, GA 30067 (404) 988-0803 MII Owner	Porter Advertising John Salter 1612 N. Oak St. Valdosta, GA 31602 (912) 244-9597 MII User	Little Fort Media Weldon Johnson 113-115 N. Genesee Waukegan, IL 60085 (708) 244-9666 MII Owner	The Tape Company Robert Daly 801 Siver Dr Wood Dale, IL 60191 MII Owner	Ball State University Ed Govin 5429 Keystone Dr Ft Wayne, IN 46825 MII Owner
Safford Video Lawson Turk 2815 Evans St Hollywood, FL 33020 (800) 727-2679	WFTV Edward J. Roos P.O. Box 510 Palm Beach, FL 33480 (407) 655-5455 MII Owner	TVF Productions Jean Varn 4501 E Columbus Dr Tampa, FL 33605 (813) 623-2828 MII Owner	Master Images Video Duplications, Inc. Skip Navar 3176 Mac Arthur Blvd. Northbrook, IL 60062 (708) 564-0740 MII Owner	TCI Cablevision Neil Smith 8800 West Park Boise, ID 83704 (208) 375-8888 MII Owner	Three Angels Broadcasting Network Clarence Larson Rt 3 Box 176 Thompsonville, IL 62890 (618) 627-4651 MII Owner	Maginuity Video Productions Harry Maginuity PO Box 13 Green Castle, IN 46135 (317) 653-5736 MII Owner
Three Angels Broadcasting Network Doug Garica PO Box 220 West Franklin, IL 62896 (618) 627-4651 MII Owner	Reed Productions Kevin Bassett PO Box 977 Warsaw, IN 46580 (219) 267-4199 MII Owner	Production Services Walter Rassel 4930 Illinois Rd Ste 1F Ft. Wayne, IN 46804 MII Owner				

Sho-n-Tell Rollie Bunce 8241 Milhouse Rd Indianapolis, IN 46241 (317) 785-5418 MII Owner	St. Luke's Hospital Maureen Osako 1026 A Avenue, NE Cedar Rapids, IA 52402 (319) 369-7487	S & W Productions Terry Schmit 459 Broyles Ave Paducah, KY 42003 (502) 554-3057 MII Owner	<b>Maryland</b> Action Comm Research Chip Gallo 1616 Forbes St Rockville, MD 20851	Global Vision Tang Nazir PO Box 535 Reisterstown, MD 21136 (301) 986-6715 MII User	Ralph Graves Productions, Inc. Bill Graves 5161 River Rd, Bldg 2, Suite 103 Bethesda, MD 20816 (301) 986-4577 MII Owner	WBFF Del Parks 2000 W. 41st Street Baltimore, MD 21211 (301) 467-4545 MII Owner
Versatile Video Services, Inc. Terry Burke P.O. Box 333 Yorktown, IN 47396 (317) 759-4747 MII User	<b>Kansas</b> Beechcraft Corp. Richard Young PO Box 85 Wichita, KS 67201 MII Owner	WPSD-Engineering Dept. Jim Franklin P.O. Box 1197 Paducah, KY 42002-1197 (502) 442-8214 MII Owner	Antietam Cable TV Bill Lucas 1000 Willow Cr Hagerstown, MD 21740 (301) 797-5000 x122 MII Owner	Hocus Focus Productions Don Armstrong 200 E Joppa Rd, Ste L105 Towson, MD 21204 (410) 832-5740 MII Owner	Regional Cable Network Cindy Garland 1000 Willow Cr. Hagerstown, MD 21740 (301) 797-5000	WBFF William Hackney 2000 W. 41st Street Baltimore, MD 21211 (301) 467-4545 MII Owner
Video Management Systems Dan Hall 1004 E. Washington Street Indianapolis, IN 46202 (317) 639-6163 MII Owner	Fast Forward Productions Brad Burrow 12508 Sunnertree Olather, KS 66062	Mike Blohm 4910 Marque Dr New Orleans, LA 70127	Antietam Cable TV Dave Dahl 1000 Willow Cr Hagerstown, MD 21740 (301) 7-7500 x122 MII Owner	Henry Joseph, III 10169 New Hampshire Ave. Suite 198 Silver Spring, MD 20903 (301) 434-7347 MII User	Ritz Audio/Visual Scott Grady 6620 Virginia Manor Beltsville, MD 20705 MII User	WBFF-TV William Youkings 13 E. Washington St. Hagerstown, MD 21740 (301) 797-4400 MII Owner
Video Management Systems Jeff McFall 1004 E. Washington Street Indianapolis, IN 46202 (317) 639-6163 MII Owner	First Generation Video Wink Friesen 1802 N. Plum Hutchinson, KS 67502 (316) 662-9262 MII Owner	Channel One Video Brian Butcher PO Box 5454 Lafayette, LA 70502	AVA Productions Dick Slade 1412 Northcrest Drive Silver Spring, MD 20904 (301) 384-5995 MII Owner	Image Productions John Young 9535 Mapleville Road Hagerstown, MD 21740 (301) 739-4590 MII Owner	Sign Media Inc. Verden Ness 4020 Blackburn Lane Burtonsville, MD 20866 (301) 421-0268 MII Owner	WHAG-TV Wayne Youkings 13 E. Washington St. Hagerstown, MD 21740 (301) 797-4400 MII Owner
WFFT-TV Mac McShane 3707 Hilliges RD Ft. Wayne, IN 46808 (219) 471-5555 MII Owner	Heartland Productions, Inc. Evan Winsby PO Box 4180 Shawnee Mission, KS 66204 (913) 236-6088 MII Owner	Execute Productions Tom Samuels 127 S. Solomon St New Orleans, LA 70119-5928 (504) 482-8848 MII User	Bell Atlantic Tom Erdely 801 Roeder Road Silver Spring, MD 20910 (301) 365-8663 MII Owner	In Motion Magazine Alison Dollar 1203 West St. Annapolis, MD 21401	Specialized Communications Dave Clayberg 907 Maryland Ave. Hagerstown, MD 21740 (800) 359-1858 (301) 790-0103 Repair	Massachusetts A/V Services Bob Poole 674 Mass Ave (Rt 111) Boxborough, MA 01719 (508) 263-7727 MII Owner
WIPB-TV Bob Fairchild PO Box 1708 Muncie, IN 47308 (317) 285-1249 MII Owner	JAT Productions Jill Ann Nichols RR 3 Box 78 Lyons, KS 67554	In-Sync Larry Christensen 13 Country Club Lane Sherman, LA 51601 (712) 246-5848 MII User	JB CableAids Jim Dull 635 Stoner Ave. Shreveport, LA 71101 (318) 222-4290 MII Owner	Carpet Video Andy Carpet 429 E. Patrick St. Frederick, MD 21701 (800) 338-4300 Supplier	In Motion Magazine Lynn Johnson 1203 West St. Annapolis, MD 21401	Bob Benson Video Film Robert Benson 287 Chappel St. Holden, MA 01520 (508) 829-5448 MII Owner
WIPB-TV James Miller PO Box 1708 Muncie, IN 47308 (317) 285-1249 MII Owner	KPTS Dave McClintonck 320 W. 21st St. North Wichita, KS 67203 (316) 838-3090 MII Owner	Colorlab Russ Sunnwick 5708 Arundel Ave. Rockville, MD 20852 (301) 770-2128 MII Owner	Kennedy Krieger Institute Michele Lash 707 N. Broadway Baltimore, MD 21211 (410) 550-9448 MII Owner	Johns Hopkins APL Fred Cammen Johns Hopkins Rd Laurel, MD 20723 (301) 953-6786 MII Owner	Take One Video Dan Powell 997 Headwater Annapolis, MD 21403	The Camera Corp Marty Feldman 838 Providence Hwy. Norwood, MA 02062 Dealer
WKJG-TV Matt Kyle 2633 W. West State Blvd Ft. Wayne, IN 46808 (219) 422-7474 MII Owner	KSAS-TV David Bird 316 N. West St. Wichita, KS 67203 (316) 942-2424 MII Owner	Mission Service Supply Inc. Joey Guy 900 Wood St Westmonroe, LA 71291 (318) 325-8674 Dealer	Commercial Video Services Greg Honeycutt 101 Winston St Cumberland, MD 21502 (301) 724-7999 MII Owner	KTS Television & Film Mark Kregel 1403 Ronson Ct. Aberdeen, MD 21001 (410) 734-7961 MII Owner	TCI Cablevision Bob Hidey 201 S. Mechanics St Cumberland, MD 21502 (301) 722-6547 MII Owner	Crimson Tech Lee Wolloff 325 Vassar St Cambridge, MA 02139 (617) 868-5150 Dealer
WSBT AM TV Chris Thornton 300 W. Jefferson Blvd South Bend, IN 46601 (219) 233-5141 MII Owner	Majec Video Productions Jordan Gershon 9275 Flint St Overland Park, KS 66214 (913) 894-1188 MII Owner	KSNEWS Martin Heffner 833 N. Main Wichita, KS 67201 (316) 265-3333 MII Owner	Communications Televideo Ltd. Jim Lopynski 9301 Georgia Ave. Silver Spring, MD 20910 (301) 585-6311 Dealer	Lister Hill Natl. Center For Biomedical Communications James Chanrias Bldg 38A RM B2N35 Bethesda, MD 20894 (301) 496-6396 MII Owner	Towson State University Stacey O'Neal Dept of Speech/Communication Towson, MD 21204 (410) 830-3433 MII Owner	Eastern Video Systems, Inc. Bob Strauss 2 Sterling Rd Billerica, MA 01862 (508) 667-0009 Dealer
WTW Fred Baumgartner 3490 Bluff Road Indianapolis, IN 46202 (317) 787-2211 MII Owner	Prism Productions James Horine 110 South Cherry, Suite 1 Olathe, KS 66001 (913) 782-2992 MII Owner	Newcomer Young Productions James Young 201 Trenton St West Monroe, LA 71291 (318) 325-4413 MII Owner	Communications Televideo Ltd. Charles Brochma 9301 Georgia Ave. Silver Spring, MD 20910 (301) 585-6311 Dealer	Montgomery College Tom Cook 51 Mamarone Rockville, MD 20850 (301) 251-7159 MII Owner	TPI Productions Bill Perkins 5410 Goldsboro Road Bethesda, MD 20817 (301) 320-5979 MII Owner	GTE Labs, Inc. Rich Weiland 40 Sylvan Rd. Waltham, MA 02254 (617) 466-4151 MII Owner
Iowa		Newcomer Young Productions Ken Purcell 201 Trenton St West Monroe, LA 71291 (318) 325-4413 MII Owner	Communications Televideo Ltd. Paul Farren 9301 Georgia Ave. Silver Spring, MD 20910 (301) 585-6311 Dealer	Preston Trucking Bob Lyons 151 Easton Blvd. Preston, MD 21655 (301) 673-7151 MII Owner	Video on Location Jimmy Veizis 11600 Nebel St. Rockville, MD 20852 (301) 584-5823 MII Owner	Mike Healy 25 Highland Terrace #2508 Plymouth, MA 02360
American Heritage Cable Brian Sawyer 1729 McPherson Ave Council Bluffs, IA 51503 (712) 328-7207 MII Owner	Smoky Hills Public TV Lloyd Mintzmeier PO Box 9 Bunker Hill, KS 67626 (913) 483-6990 MII Owner	Producer's Group International Bob Krieger, Jr. 634 Village Lane North Mandeville, LA 70448 (504) 674-1540 MII Owner	Communications Televideo Ltd. Mr. Han S. Jan 9301 Georgia Ave. Silver Spring, MD 20910 (301) 585-6311 Dealer	PG County Office of TV Resources Don Mattingly 8437 Landover Road Landover, MD 20785 (301) 386-1629 MII Owner	Video on Location Dino Veizis 11600 Nebel St. Rockville, MD 20852 (301) 584-5823 MII Owner	Iron Fist Productions Ariel Lustig 432-A Mass Ave Arlington, MA 02174 (617) 646-5954 MII User
Cedar Rapids Television Co. Bruce Kruse Second Ave. at Fifth St., SE Cedar Rapids, IA 52401 (319) 396-8422 MII Owner	University of Kansas Brian Powell Athletic Dept.-Football Allen Fieldhouse Lawrence, KS 66045 MII Owner	Video First Productions Chris Turner 201 Trenton St West Monroe, LA 71291 (318) 325-4413 MII Owner	Communications Televideo Ltd. Mr. Han S. Jan 9301 Georgia Ave. Silver Spring, MD 20910 (301) 585-6311 Dealer	Prince Georges Co. Public Schools Scott Schiller 8437 Landover Road Landover, MD 20785 (301) 386-1629 MII Owner	Video Transfer, Inc. Ernie Achenbach 5709-B Arundel Ave. Rockville, MD 20852 (301) 881-0270 MII Owner	LCR Productions Leo Rotkiewicz, Jr. 46 Elm St South Deerfield, MA 01373-1006 (413) 665-2946 MII User
Iowa State University Denny Goodrich Media Production Unit Exhibit Hall South Ames, IA 50011 (515) 294-2316 MII Owner	Video Service of America Patrick Barber PO Box 14945 Lenexa, KS 66285-4945	Vidox Chris Allain 1223 St. John Lafayette, LA 70506 (318) 237-1700 MII Owner	Bill Goon 913 Hyde Road Silver Spring, MD 20902	Prince Georges Co. Public Schools Chuck Wolfe 8437 Landover Road Landover, MD 20785 MII Owner	Videovision Mike Wicklein 37 E Washington St Hagerstown, MD 21740 (301) 791-5496 MII Owner	Media Partners of MA Gary Pink 1837 Ocean St. Marshfield, MA 02050 (617) 837-5301 MII Owner
Iowa State University Jim Tweten Media Production Unit Exhibit Hall S Ames, IA 50011 (515) 294-2316 MII Owner	Dench Video Services, Inc. Tim Dench 9141 Bardstown Rd. Louisville, KY 40291 (502) 239-0229 MII User	WYES Mike Denning PO Box 24026 New Orleans, LA 70184 (504) 486-5511 MII Owner	Fallen Angels Films, Inc. Lynn Till 530 Fawn's Walk Annapolis, MD 21401 (410) 747-0516 MII Owner	Professional Products, Inc. James Baldwin 4964 Fairmont Ave. Bethesda, MD 20814 (301) 657-2141 Dealer	Virtual Image Labs, Inc. David Paige 1738 Elton Rd. Ste 307 Silver Spring, MD 20904-1725 (301) 431-7735 MII Owner	MIT Earth & Planetary Sciences Tim Dowling 18 Vassar St. Bldg. 54-420 Cambridge, MA 02139 (617) 253-1785 MII Owner
Kirkwood Community College Joe Taylor 6301 Kirkwood Blvd SW Cedar Rapids, IA 52406 (319) 398-5620 MII Owner	KET Michael Howard 600 Cooper Drive Lexington, KY 40502-2296 (606) 258-7089 MII Owner	Fay Communications Inc. Tim Fay 802 Argyle Rd Silver Spring, MD 20901 (301) 588-0778 MII Owner	Fay Communications Inc. T. Thomas Baum 1089 Heathers Dr. Westminster, MD 21158-3602 (301) 876-9590 Manuf.	Professional Products, Inc. Bob Williams 2605 N. Rolling Rd, Suite 406 Baltimore, MD 21207-1960 (301) 298-7111 Dealer	VMAG Kendra Cook 5410 Goldsboro Road Bethesda, MD 20817 (301) 320-0077 MII Owner	New England Cablevision Jerry Kinow 38 Blackburn Center Gloucester, MA 01930 (508) 281-2285
Pratt Audio Visual & Video Corp. Cynthia Egger 200 Third Ave., SW Cedar Rapids, IA 52404 (319) 363-8144 Dealer	S & W Productions Tom Prigge 459 Broyles Ave Paducah, KY 42003 (502) 554-3057 MII Owner	James Waligora 3555 N. Raymond Rd Poland Spring, ME 04274 MII User	Fuji Pro Tape J. Thomas Baum 1089 Heathers Dr. Westminster, MD 21158-3602 (301) 876-9590 Manuf.	Washington Professional Systems Mike Gerry 11157 Viers Mill Rd. Wheaton, MD 20902 (301) 942-6800 Dealer	Plainsong Productions Ben Achtemberg 47 Halifax Street Jamaica Plain, MA 02130 (617) 524-0980 MII User	

Post Time Productions Fred Mycroft 340 Anawan Street Rehobeth, MA 02789 MII Owner	Lake Michigan College Kevin Birdsell 2755 E Napier Ave Benton Harbor, MI 49022 (616)927-3571 x5249 MII Owner	Western Michigan University Janet Oliver Television Studios Kalamazoo, MI 49008-5167 (616)387-5042 MII Owner	Gotify Advertising & Marketing Rich Elsberry 5001 West 80th ST, Ste 655 Bloomington, MN 55437 MII Owner	Todd Communications Tom Upmann 6545 Cecilia Cir. Minneapolis, MN 55439 (612)941-0556 Dealer	KULR-TV Patrick Shearer PO Box 80810 Billings, MT 59108 (406) 636-8000 MII Owner	WOWT-TV Cari Bauman 3501 Farmam Omaha, NE 68131 (402) 346-6666 MII Owner
ProMEDIA Floriano Cabral 246 Palmer Street Fall River, MA 02724 (508)994-0447 MII Owner	Mirage Video Communications Inc Richard Sulko 12413 S Harlem, IL 600463	WNEM TV 5 Greg Summa 107 N. Franklin St PO Box 531 Saginaw, MI 48606 (517) 758-2084 MII Owner	Grant Bookier Video Terry Grant 2543 Nicollet Ave. S Minneapolis, MN 55404 MII Owner	Todd Communications Bill Facklam 6545 Cecilia Cir. Minneapolis, MN 55439 (612)941-0556 ex484 Dealer	KUSM-TV MT State Univ. Dean Lawver Visual Comm Bldg Bozeman, MT 59717 (406)994-3437 MII Owner	Nevada
Studio 5 Productions Bill Lowell 5 TV Place Needham, MA 02192 (617) 449-0400 MII Owner	Mt Hope Church Bob Clemon 202 S Creys Rd Lansing, MI 48917 (517) 321-2780 MII Owner	WNEM TV 5 Michael J Miller 107 N. Franklin St PO Box 531 Saginaw, MI 48606 (517) 758-8191 MII Owner	Heaton Dailey Monson Jamie Heaton 6573 City West Plkwy Eden Prairie, MN 55344 MII Owner	Vaughn Duplication Services Keri Christiansen 7951 Computer Ave South Minneapolis, MN 55435 (800)323-0281 MII Owner	Maney Telefilm Dick Maney 842 Lexington Ave Butte, MT 59701 (406)82-8092 MII Owner	High Sierra Video Productions Bryan Hoopes 930 Tahoe Blvd, Unit 802 Incline Village, NV 89450 (702)831-1256 MII Owner
Thom McAn Greg Lindgren 67 Millbrook St Worcester, MA 01606 (508) 791-3811 MII Owner	Mt Zion Temple David McCuller 4900 Maybe Rd Clarkston, MI 48348 (313) 391-6166 MII Owner	WNMU-TV Northern Michigan University Earl Litch Marquette, MI 49855 MII Owner	Jamieson & Associates, Inc. Richard Jamieson 5200 Wilson Road - 300 Minneapolis, MN 55424 (612)920-3770	Mississippi	Nebraska	Markone Video Mark Carey 220 South Rock Blvd #9 Reno, NV 89502 (702)856-2011 MII Owner
WNAC-TV Gary Sprague 33 Pine St Rehoboth, MA 02769 MII Owner	Persona Video Tony Gorkiewicz 6668 Orchard Lk Rd 200 West Bloomfield, MI 48322	Wolohan Lumber Paul Adler P.O. Box 3235 1740 Midland Rd Saginaw, MI 48605 (517) 793-4532 x374 MII Owner	Junhunen Video Mike Vinup 708 N. First St., Ste 131 Minneapolis, MN 55401 (612)341-3348 MII Owner	WJTY, Broadcasters of MS Inc. Mike Godwin PO Box 8887 Jackson MS 39284-8887 (601)372-6311 MII Owner	Boys Town Mark Wanski 555 N 30th St Omaha, NE 68131 MII Owner	Truckee River Studios, Inc. Larry Beldon PO Box 1529 Verdi, NV 89439 (800) 824-0977 MII Owner
Michigan	PDO2 MultiMedia 7465 West Grand River Brighton, MI 48116 (313) 229-0843 MII Owner	WXY-TV Mike Doback PO Box 789 62 Division Southfield, MI 48037 (313) 827-9490 MII Owner	KARE Norm Beardsley 8811 Olson Memorial HWY Minneapolis, MN 55427 (612)464-1111 MII Owner	Missouri	BioMed Communications Dept Jim Prucha 2400 California St. Omaha, NE 68178 MII Owner	Unique Video Productions Bill Pearce 3932 Kingarrow Reno, NV 89503
Blue Sky Productions Peter Hickman 1020 Creys Rd., Suite 305 Lansing, MI 48917 (517) 886-2010 MII Owner	Q-1 Video Network Tim Hart 62 Division Coldwater, MI 49036 (517) 279-8752 MII Owner	WZZM-TV Chuck Mikawski 645 Three Mile Rd N.W. Grand Rapids, MI 49504 MII Owner	KARE Michael Young PO Box 11954 St Paul, MN 55111 (612)825-4835 MII User	Duff Video Productions Ron Duff P.O. Box 881 Cape Girardeau, MO 63702-0881 (314)334-1189 MII Owner	Chapman & Associates Don Chapman 1912 California St. Omaha, NE 68102 (402)340440 MII Owner	Western Nevada Community College 2201 West Nye Lane Carson City, NV 89703 (702)887-3073
Christian Family Centre Paul Maybee 1800 W US 223 Adrian, MI 49221 (517)263-6232 MII Owner	Thaler Electronic Labs Karl Couyoumjian 7235 Jackson Rd. Ann Arbor, MI 48103 (313) 761-4506 Dealer	WXXV Chuck Mikawski 645 Three Mile Rd N.W. Grand Rapids, MI 49504 MII Owner	KARE Michael Young PO Box 11954 St Paul, MN 55111 (612)825-4835 MII User	Foris Benefits Insurance Company Craig Campbell 2223 Grand Ave Kansas City, MO 64108 (816)881-8719 MII Owner	Creighton University Terence Barrois 2400 California St. Omaha, NE 68178 (402)260-2072 MII Owner	New Hampshire
Communications Systems Group Kirk Krinke 13555 Capital Ave Oak Park, MI 48237 (313) 399-2000 Dealer	Thaler Electronic Labs John Young PO Box 96 Bangor, MI 49013 (616) 427-8233 Dealer	3M Chris Bunner 3M Center Building 223-5N-01 St Paul, MN 55119 (612) 733-9697 Manuf.	Marketing By Video Louis Hagan 6440 Flying Cloud Dr., STE 101 Eden Prairie, MN 55344 (612)944-3323 MII Owner	KPLR Jim Wright 4935 Lindell Blvd. St. Louis, MO 63108 (314) 454-6306 MII Owner	Creighton University Chuck Lenosky California at 24th ST Omaha, NE 68138 MII Owner	Channel One Video Bill Channel PO Box 1437 Seabrook, NH 03874 (603) 474-5046 MII User
Communications Systems Group Andrew McCaskey 13555 Capital Ave Oak Park, MI 48237 (313) 399-2000 Dealer	True Life Video Ted & Kay Slankster 9155 Davisburg Road Clarkston, MI 48348 (313) 625-9155 MII User	Alpha Video Dick Whitley 7711 Computer Ave. Edina, MN 55435-5494 (612) 896-9898 Dealer	Mayo Clinic Marvin Mitchell Video Communications Systems Rochester, MN 55905 (507) 284-2511 MII Owner	Lines Video Systems 219 S Jefferson Springfield, MO 65806 (800)641-4674 Dealer	Creative Visual Larry Homan 10135 St. Omaha, NE 68127 (800) 547-4184 MII Owner	Great Northern Video Harvey Weinstein 31 Industrial Park Dr. RFD 10 Concord, NH 03301 (603)228-0412 Dealer
Delta College Harold Conley University Center, MI 48710 (517)686-9354 MII Owner	University of Michigan, METN Jerry McCarty RM 1020 HH Dow Bldg Ann Arbor, MI 48189-2136 (313) 763-1233 MII Owner	Alpha Video Tom Egan 7836 2nd Ave. S. Bloomington, MN 55420 (612)881-2055 Dealer	Miller Meester Advertising Dan Sauard 17 N Washington Ave Minneapolis, MN 55401 (612) 337-9120 MII Owner	Southeast Mo State Univ David Andrews 1 University Plaza Cape Girardeau MO 6370 (314) 651-2257 MII User	Gamma Industries Scott McLain 729 'C' St. Lincoln, NE 68508 (800) 225-7554 Manuf.	Icicle Productions Erik Lourette 7 Hamstead Rd Box 439 Sandown, NH 03873 MII User
Digital Animation Corp. Ron Ware 24445 Northwestern Hwy, Suite 105 Southfield, MI 48075 (313)354-0890 MII User	Vivid Visions, Inc Christopher Hart 9282 General Dr., Suite 130 Plymouth, MI 48170 (313) 453-7770 MII Owner	Audio Visual Wholesaler Tom Toulges 5395 31st Ave Plymouth, MN 55447 Dealer	Northern Minnesota Public TV Bill Sanford Box 9 BSU Bemidji, MN 56601-2699	University of Missouri Video Network James Caar 301 Fine Arts Bldg UMKC Kansas City, MO 64110-2499 (816)235-1096 MII Owner	GPI Productions, Inc. Tom Elkins 9140 W Dodge Rd Omaha, NE 68114 (402)255-2630 MII Owner	Taylor & Company Robert Taylor 13 Dartmouth College Hwy Lyme, NH 03768 (603)795-4100 MII User
Dunbar Video Productions William Dunbar 2487 Houser Rd Holly, MI 48442 (313)634-8686 MII Owner	VPM Studios Gene Casaroll 13761 Bell Court Stirring Heights, MI 48312 (313) 939-8680 MII Owner	Bundy Group J.D. Bundy Box 11098 Minneapolis, MN 55411 (612)832-3812	Northland Insurance Companies Charlie Stedick 1295 Northland Dr. St. Paul, MN 55120-1146 (612)688-4721 MII Owner	Vaugh Duplication Services Pete Leverenz 13241 Tandem Drive Creve Coeur, MO 63146 (314)576-6804 MII Owner	GPI Productions, Inc. Matt Kuske 9140 W Dodge Rd Omaha, NE 68114 (402)255-2630 MII Owner	Tech Services Steve Carrus 23 Truel Rd Hollis, NH 03049
Ken Johnston 3470 Dobie Rd Okemos, MI 48864 (517)349-2976 MII User	Western Michigan University James Kirkland Television Department Kalamazoo, MI 49008-3899 (616) 387-5040 MII Owner	Century Design Jody Hartung 530 15th Ave. S. Hopkins, MN 55343-7889 (612) 935-0033 MII Owner	NW Airlines Bob Branda 5101 NW Dr., N7281 St. Paul, MN 55111 (612)726-0355 MII Owner	Montana	GPI Productions, Inc. Johnnie Travis 9140 West Dodge Rd Omaha, NE 68114 (402)255-2630 MII Owner	New Jersey
Int'l Learning Systems, Inc. Larry S. Bothe Rm 120 Bell Hall Andrews University Berrien Springs, MI 49104-0087 (616)711-6052 MII Owner	Grand Rapids, MI 49504-6492 (616)771-6666 MII Owner	CASASA Productions Larry Gilbertson 2101 57th Ave N Brooklyn Park, MN 55430 (612) 560-1335 MII Owner	Eagle Communications, Inc. C.J. Cannata PO Box 5268 Missoula, MT 59806 (406) 721-2063 MII Owner	University of Missouri Video Network Jerry Fuehrer PO Box 220 Kearney, NE 68848-0220 (308) 743-2494 MII Owner	AICPA Jim Catone Horizon Financial Center 201 Plaza 3 Jersey City, NJ 07311-3881 (201) 938-5493 MII Owner	Audio + Video Post Tony Beswick 235 Pegasus Ave Northvale, NJ 07647 (201) 784-2818 MII User
Lake Michigan College Todd Blake 2755 E Napier Ave Benton Harbor, MI 49022 (616)927-3571 x5248 MII Owner	Western Michigan University Cinesound 2 Dennis O'Rourke 6461 Lyndale Ave. South Minneapolis, MN 55423 (612) 866-5049 MII Owner	Cinesquipt Kevin Groves 856 Raymond Ave St Paul, MN 55114 (612) 646-1780 Dealer	On Site Environmental Services, Inc. Tim Lewis 11760 Justen Circle Maple Grove, MN 55369 (612) 428-2666 MII Owner	KCEC-TV Larry Arbaugh PO 5268 Missoula, MT 59806 (406) 721-2063 MII Owner	NTV Network Jerry Fuehrer PO Box 220 Kearney, NE 68848-0220 (308) 743-2494 MII Owner	Avon Productions Fred Lipowitz 123 Main Street South Plainfield, NJ 07080 (908) 756-0643 MII Owner
Post Time Productions Fred Mycroft 340 Anawan Street Rehobeth, MA 02789 MII Owner	Conus Communications Jonathan Meyers 3415 University Ave St Paul, MN 55114 (612) 642-4637 MII Owner	Cinesound 2 Dennis O'Rourke 6461 Lyndale Ave. South Minneapolis, MN 55423 (612) 866-5049 MII Owner	Promotional Films and Video, Inc. Al Peterson 1313 Cambridge St. Hopkins, MN 55343 (612) 935-2183 MII Owner	KCFW-TV Chris Neuhausen PO Box 857 Kalispell, MT 59901 (406) 755-5239 MII Owner	WOWT-TV Rick Khuts 3501 Farmam Omaha, NE 68131 (402) 346-6666 MII Owner	Bell Atlantic Corporate Television Richard Deiss 540 Broad Street, Room 400 Newark, NJ 07101 (201) 649-3885 MII Owner

Bottom Line Television Mike Moran 1916 Old Cuthbert Rd. Cherry Hill, NJ 08034 (609) 354-5060 MII Owner	WJ Kronemyer Associates Bill Kronemyer 280 East Glen Ave. Ridgewood, NJ 07450 (201) 445-1919 MII User	New York A-1 Videography Bill Tucker 1796 Devendorf Rd. Schenectady, NY 12303-2640 (518) 356-0334 MII User	Colortone Jack Miller 76 S. Central Ave. Elmsford, NY 10523 (914) 592-4151 Dealer	Leading Image Larry Solomon 54 Kingsberry Rd. Montrose, NY 10548 (914)739-3562 MII User	New York Telephone William Basciano 1095 Avenue of the Americas, Rm 1600 New York, NY 10036 (212) 395-0111 MII Owner	WJCA-TV Sargent Catharr 815 Central Ave Albany, NY 12206 (518)438-8700 MII Owner
Cassette Dub Inc. Paul Raman 245 Livingston Street Northvale, NJ 07647 (201) 767-7077 MII Owner	New Mexico CD Productions, Inc. Dale Green PO Box 2785 Corrales, NM 87048-2785 (505)898-1544 MII Owner	Allen AME Church Gary Fulmore 1100-54 Menck Blvd Queens, NY 11432 (718) 526-3510 MII User	Coart Video Edward Helfer Jr. PO Box 2, Rt 217 Mellenville, NY 12544 (800) 888-4451 Supplier	Locke Productions Christopher Johnson 14336 Oak Ave Flushing, NY 11355 MII User	New York Telephone Group Mark Olkowksi 405 Lexington Ave, 54th Floor New York, NY 10174 MII User	North Carolina A&T State University Arthur D. Selby Greensboro, NC 27406 MII User
Costello Video Group, Inc. Joe Costello 241 Mohar Dr. Elmwood Park, NJ 07407 (201)791-5449 MII Owner	CD Productions, Inc. Cindy Barchus PO Box 2785 Corrales, NM 87048-2785 (505)898-1544 MII Owner	All Pro Sid Rubinstein 124 W. 69th St., Suite 51F New York, NY 10023 (212) 582-4611 MII Owner	Manhattan Cable TV Dean Adrian 120 E 23rd St New York, NY 10010 (212)986-7278 MII Owner	Manhattan Cable TV Steve Crispiano 1864 64th St Brooklyn, NY 11204 (718) 232-1832 MII Sales & Repair Man	Manhattan Cable TV Fred Ciccone 120 E 23rd St New York, NY 10010 (212)986-7269 MII Owner	PCI Recording Service Ted Hummel 737 Atlantic Ave. Rochester, NY 14609 (716) 288-5620 MII User
CNBC Mr. M. Reitman 2200 Fletcher Ave. Fort Lee, NJ 07024 MII Owner	Corporate Image Video David J. Stewart P.O. Box 90801 Albuquerque, NM 87199 (505) 271-9555 MII Owner	All Pro Production Nathan Bachar 124 W. 69th St., Suite 20B New York, NY 10023 (212) 485-3780 MII Owner	The Creators Richard DePasqo 41 Skypot Drive Pleasantville, NY 10507 (914) 709-0676 MII Owner	Manhattan Cable TV James Oakes 120 E 23rd St New York, NY 10010 (212)598-1787 MII Owner	Manhattan Cable TV James Oakes 120 E 23rd St New York, NY 10010 (212)598-1787 MII Owner	PDR Productions Neil Derosa 219 E. 44th St New York, NY 10017 (212)986-2020 MII
CNBC Kevin Kudatzky 2200 Fletcher Ave. Fort Lee, NJ 07024 MII Owner	G.C. Video, Inc. Diane Bogic 425 Eubank Blvd, NE Suite E Albuquerque, NM 87123 (505) 293-6509 Dealer	Advanced Video Systems Ralph Olson 19 Roots Lane Owego, NY 13827 800-233-2430 Dealer	Elite Video Production Kahn Zemes 1612 E. 14th St Brooklyn, NY 11229 (718) 627-0499 MII Owner	Miller Pro Video Stephen Cohen 48 W 21st Street NY NY 10010-6994 (212)741-8011 Dealer	SUNY Institute of Technology Steve Perta PO Box 3050 Utica, NY 13504 (315) 792-7180 MII Owner	Curtis Inc. Dave Pethgew 18517 Thicket Ct. Charlotte, NC 28278 (800)733-2878 MII Owner
CNBC Steve Crispiano 2200 Fletcher Ave. Fort Lee, NJ 07024 (201) 585-6354 MII Owner	KGSW-TV Mark Gardner 1377 University Blvd NE Albuquerque, NM 87102 MII Owner	Bausch & Lomb Terry Shaw 1400 N. Goodman St. Rochester, NY 14692 (716) 338-8779 MII Owner	Euro Video Productions Carl Holman #9 Hazen Ln Carmel, NY 10512 (800)486-2275 MII Owner	Moyle & Associates, Inc. Claude Moyle PO Box 491 Altamont, NY 12009 (518) 861-5663 MII Owner	Tan Audio Video Sales Maritza Arzenal 1370 Ave of the Americas NY NY 10019 (212)581-6950 Dealer	Junior Johnson & Associates Ron Dauenhauer Wilkesboro, NC 28697 (919) 984-2101 MII Owner
CNBC Bahanan Samian 2200 Fletcher Ave. Fort Lee, NJ 07024 (201) 346-2125 MII Owner	New Mexico Highlands Univ. Drake Bingham Communication Arts Bldg Las Vegas, NM 87701 (505)454-3353 MII Owner	B & B Systems, Inc. Norman Schnapper 630 3rd Ave. New York, NY 10017 (212)599-0375 Supplier	Fine Art Productions Richie Sunaci 67 Maple St Newburgh, NY 12550-4034	MPCS Video Joe D'Albert 514 W. 57th Street New York, NY 10019-2902	Vaughn Duplication Services Lloyd Dorfman 10 E. 39th St New York, NY 10016 (212)447-1038 MII Owner	Long Communications Group Spencer Bullins 961 Burke St Winston-Salem, NC 27101 (919) 725-2306 Dealer
Harrison Feather 44 Park Ave Madison, NJ 07940-1526 MII User	KGSW-TV Mark Gardner 1377 University Blvd NE Albuquerque, NM 87102 MII Owner	BCS Walter Drucker 460 W. 34th Street New York, NY 10001 (212) 268-5800 Supplier	Fuji Photo Film USA Tom Daly 555 Taxter Road Elmsford, NY 10523	Nassau County Police (VISCOM) Benjamin Homenick 1490 Franklin Ave. Mineola, NY 11501 (516) 573-7013 MII Owner	Vertex Video Group Steven Zarchoff 1680 Bedford Ave. #22D Brooklyn, NY 11225 (718) 756-0438 MII Owner	Long Communications Billy Register 1018 Morrisville Pkwy, Ste D Morrisville, NC 27560 (919)481-1188 Dealer
Edit Masters David Lane 1000 Laurel Oak Corp Cr. Voorhees, NJ 08043 (609) 784-1177 MII Owner	New Mexico Technical Institute Paul Hofman Geoscience Dept. Socorro, NM 87801-4796 (505)863-5108 MII Owner	Bennu Productions, Inc. Wayne Keeley 626 McLean Ave. Yonkers, NY 10705 (914) 964-1828 MII Owner	Greater Rochester Cable Harry Goldberg 71 Mount Hope Ave Rochester, NY 14620 (716) 325-1111 MII Owner	NBC News Archives Yuien Chin 30 Rockefeller Plaza, RM 922	Tan Audio Video Sales Maritza Arzenal 1370 Ave of the Americas NY NY 10019 (212)581-6950 Dealer	Lowe's Companies, Inc. Bill Hurd PO Box 1111 North Wilkesboro, NC 28659 (919) 651-4933 MII Owner
Garden State Cable TV Martin Oremsky 1250 Haddenfield-Berlin Rd. Cherry Hill, NJ 08034 (609) 354-1880 MII Owner	OnTrack Inc. Cly Leland Box 3188 HS Ruidoso, NM 88345 (505) 78-8030 MII Owner	Bravo Studio Michael Shikolnikov 2055 E 57th St Brooklyn, NY 11234 (718) 377-4411 MII User	HAVE, Inc. Paul Swedensberg 309 Power Ave. Hudson, NY 12344 (518)828-2000 MII Owner/Supplier	HAVE, Inc. 30 Rockefeller Plaza, RM 737	Vaughn Duplication Services Lloyd Dorfman 10 E. 39th St New York, NY 10016 (212)447-1038 MII Owner	Long Communications Billy Register 1018 Morrisville Pkwy, Ste D Morrisville, NC 27560 (919)481-1188 Dealer
JC Productions John Cahill 352 Amsterdam Ave. Bayville, NJ 08721 (908)265-0100 MII Owner	OnTrack Inc. Peter Martin Box 3188 HS Ruidoso, NM 88345 (800)424-7296 MII Owner	Bennu Productions, Inc. Wayne Keeley 626 McLean Ave. Yonkers, NY 10705 (914) 964-1828 MII Owner	Broadcast Video Productions Jack Miller 480 Main Street Armonk, NY 10504 (914) 592-4151 MII Owner	NBC News Mark Chomut 30 Rockefeller Plaza, RM 737	Video Magic Enterprise Melvin Flythe 130 W 3rd St New York, NY 10012 (919) 362-5867 MII Owner	Long Communications Bill Lovin Box 2242 Chapel Hill, NC 27515 (919) 362-5867 MII Owner
Larry Cohen Productions Larry Cohen 45 Mountain Drive Wachington, NJ 07060 (908) 361-8742 MII Owner	PCI, Inc. Idella Cantrell 1595 W. Amador Ave Suite H Las Cruces, NM 88005 (505) 523-7788 Dealer	Broadcast Video Productions Bill Cohen 27 Ricky Rd Herkimer, NY 13350 (315)866-0300x238 MII Owner	Broadcast Video Productions Bob Schultz Reservoir Rd Herkimer, NY 13350 (315)866-0300x238 MII Owner	NBC News Joe Marrone 30 Rockefeller Plaza, RM 737	Vidipax Jim Lindner PO Box 2 Eldred NY 12732 (914)557-3600 MII User	Mobile Television Productions Robert Warren 2121 Middle Road Fayetteville, NC 28301 (919)483-4777 MII Owner
New Life Productions Richard Myers PO Box 5500 Millville, NJ 08332 (609)825-3332 MII Owner	Sandia National Labs Jim Lloyd Organization 7153 P.O. Box 5800 Albuquerque, NM 87185 (505) 844-3867 MII Owner	Broadband Video Productions Sandia National Labs Charles Johnson Div 9249 Box 5800 Albuquerque, NM 87185 (505)844-7911 MII Owner	Bronx Community College Prof. Donald Canty 184 th St & University Ave Bronx, NY 10453 MII Owner	HBC Bill Sacrey 30 Rockefeller Plaza Rm 1210W New York, NY 10112 (212) 664-7140 MII User	NBC News Mr. Andy Morris 30 Rockefeller Plaza Rm 1210W New York, NY 10112 (212) 664-6118 MII Owner	Peggy Davis Advertising Agency Sam Davis 4025 Sunnydale Dr. Winston-Salem, NC 27106 (919)924-8666 MII Owner
NBC Mr. Wayne Grennier 5 Caesar Place Moonachie, NJ 07074-1702 MII Owner	Broadway Video Inc. Dave Radin 1619 Broadway 10th FL New York, NY 10019 (212)265-7600 MII User	Broadband Video Productions Sandia National Labs Charles Johnson Div 9249 Box 5800 Albuquerque, NM 87185 (505)844-7911 MII Owner	Bronx Community College Prof. Donald Canty 184 th St & University Ave Bronx, NY 10453 MII Owner	HBC Bill Sacrey 30 Rockefeller Plaza Rm 1210W New York, NY 10112 (212) 664-6118 MII Owner	NBC News Mr. Andy Morris 30 Rockefeller Plaza Rm 1210W New York, NY 10112 (212) 664-6118 MII Owner	Pumpkin Creek Video Production Harold Ferguson 520 Coffee Ave North Wilkinsburg, NC 28659 (919) 667-7717 MII Owner
Telemetrics Anthony Cuomo 7 Valley St Hawthorn, NJ 07050 (201) 423-0347 MII Owner	Troxell Terry Hixson 2730 San Pedro, NE Albuquerque, NM 87110 Dealer	Camera Mart Steve Gordon 456 W. 55th St. New York, NY 10019 (212) 757-5977 Supplier	HITN Jose Rodriguez 449 Broadway 13 New York, NY 10013 MII Owner	HBC Bill Sacrey 30 Rockefeller Plaza Rm 1210W New York, NY 10112 (212) 664-6118 MII Owner	Viasat Communications Harvey Viasat State RT 156 Altamont, NY 12009 (518) 861-8176 MII User	Mobile Television Productions Robert Warren 2121 Middle Road Fayetteville, NC 28301 (919)483-4777 MII Owner
United Artists Cable Peter Strang-Wolf 421 Allwood Rd Clifton, NJ 07012 (201) 779-2444 MII Owner	Video Technical Services George McClelland 222 Truman NE Albuquerque, NM 87108 (505)265-4045 Dealer	Center for Video Education Pat Shafer 56 Lafayette Ave N White Plains, NY 10603 (914)428-9620 MII User	IATSE Karen Pizzuto 1515 Broadway #601 New York, NY 10036 MII User	HBC Bill Sacrey 30 Rockefeller Plaza Rm 1210W New York, NY 10112 (212) 664-6118 MII Owner	Viasat Communications Harvey Viasat State RT 156 Altamont, NY 12009 (518) 861-8176 MII User	Mobile Television Productions Robert Warren 2121 Middle Road Fayetteville, NC 28301 (919)483-4777 MII Owner
Video Corp of America PO Box 5480 Somerset NJ 08875-5480	Vista Media, Inc. Charles Johnson P.O. Box 14392 Albuquerque, NM 87191 (505) 298-0004 MII User	Colortone Bob Siebem 76 S. Central Ave. Elmsford, NY 10523 (914) 592-4151 Dealer	IBM East Fishkill Joseph Chin Rt 32 Dept-31U, zip 22A Hopewell Junction, NY 12533 MII Owner	WPIX Bob Munch 222 42nd St New York, NY 10017 (212) 210-2552 MII User	WPIX Bob Munch 222 42nd St New York, NY 10017 (212) 210-2552 MII User	Qual Video Product Bob Peretic 614 Glenwood Ave Raleigh N.C. 27603 (919)833-3100 Dealer
Wing and a Prayer Productions Judy Gazzara PO Box 94 Paulsboro, NJ 08066	Vista Media, Inc. Charles Johnson P.O. Box 14392 Albuquerque, NM 87191 (505) 298-0004 MII User	Colortone Bob Siebem 76 S. Central Ave. Elmsford, NY 10523 (914) 592-4151 Dealer	New York City Sanitation Department Mike Barbaroto Audio Visual Services Unit PO Box 213 Maspeh (Queens), NY 11378 (718) 334-9217 MII Owner	WWNY-TV Jim Corbin 120 Arcade St Watertown, NY 13601 (315)788-3800 MII Owner	WWNY-TV Jim Corbin 120 Arcade St Watertown, NY 13601 (315)788-3800 MII Owner	Quinn Productions Amanda Robertson PO Box 25474 Winston-Salem, NC 27107 (276) 271-5474 MII Owner
Sara Lee Direct Walter Orecchia 470 Hanes Mill Rd Winston-Salem, NC 27105 (919)519-7138 MII Owner						

Southern Video Corp. Louis Astbury 1016 S. Church St Charlotte, NC 28203 (704) 333-5454 MII Owner	<b>Ohio</b> Advanced Video Jeff Costa 1312 Wise Dr Miamisburg, OH 45342 (513) 461-6800 MII Owner	Prestige Production & Graphics Design John Basso 148 East Aurora Rd. Northfield, OH 44067 (216) 467-8400	WGTE-TV Dan Niezwiecki 136 Huron St Toledo OH 43697 MII User	KMTR-TV Kurt Thelen 3825 International Court Springfield, OR 97477 (503) 746-1500 MII Owner	Eric Ciel Videotaping 1102 Denise Circle Phoenixville, PA 19460-1815 (215) 933-3380 MII User	WPGH-TV John Getz 750 Ivory Ave Pittsburgh, PA 15214 (412) 931-8141 MII Owner
Southern Video Corp. Gary Kilkough 1016 S. Church St Charlotte, NC 28203 (704) 333-5454 MII Owner	ALLTEL Service Corporation Kenneth C. Nelson 2000 Highland Road Twinsburg, OH 44087 (216)963-1862 MII Owner	PJ Collins Co Inc Peter Collins PO Box 1195 Medina OH 44256-1195	WHIZ-TV Elmer Hartneyer 629 Downard Rd. Zanesville, OH 43701 (614) 453-5431 MII Owner	Portland Public Schools Charles Wiegand 7758 Lafayette Rd. NW Newark, OH 43055 (614) 967-0059 Supplier	Grove World-Wide Brad Gentile 1565 Buchanan Trail East Shady Grove, PA 17256 (717) 597-8121 MII Owner	WPIT-TV Chief Engineer PO Box 2809 Pittsburgh, PA 15230 (412)856-9010 MII Owner
State of North Carolina Agency for Public Telecommunications Richard Danchi 116 West Jones Street Raleigh, NC 27603 (919) 733-6341 MII Owner	Aretta Sevastakis 1656 Archwood Ln Toledo, OH 43614	B Squadron Video Russ Beckner 2100 Heatherwood Ct. Middletown, OH 45042 (513) 422-9552 MII Owner	Wiegand Audio/Video Labs Charles Wiegand 7758 Lafayette Rd. NW Newark, OH 43055 (614) 967-0059 Supplier	Professional Video & Tape Bill Floyd 10240 SW Nimbus Ave Tigard, OR 97223 (503) 280-5838 Dealer	John McKee Productions, Inc. John McKee 1111 Fawcett St. White Oak, PA 15131 (412) 664-7583 MII Owner	WSEE-TV Dan Nungesser 1220 Peach St Eric, PA 16301 MII Owner
Target Television Don Kirk 1001 S Marshall St Winston-Salem, NC 27101 MII Owner	Bear Productions Robert Manster 2633 Warner Rd. Fowler, OH 44418 (216)638-3430 MII Owner	Riverside Film & TV Productions Rob Richardson, Jr. PO Box 543 Marietta, OH 45750 (614) 373-0861 MII Owner	WKYC-TV Andy Hitchcock 1403 E. 6th St. Cleveland, OH 44114 (216) 344-3356 MII Owner	Psychological Research Foundation Loren Parks 19460 SW Shaw Aloha, OR 97007 (503)649-7007 MII Owner	Mine Safety Appliance Co. Josh Bayer PO Box 426 Pittsburgh, PA 15230 (412) 967-3198 MII Owner	NAMEDLOC Inc Lon Crosby 430 Hollybush Rd Bryn Mawr, PA 19010 MII Owner
Technical Video Systems Jim Holladay 215 North Broad St Winston Salem, NC 27101	Jeff Chambers 4156 Little York Rd Dayton, OH 45414 (513) 890-8797 MII Owner	RPC Video Bob Ring 6777 Engle Road, Ste D Middleburg Heights, OH 44130 (216) 891-5797 Dealer	WKYC-TV Gerald Plemmons 1403 E. 6th St. Cleveland, OH 44114 (216) 344-3333 MII Owner	Teknifilm/Vaughn Jody McNamee 1434 NW 17th Ave. Portland, OR 97209 (503)224-3835 MII Owner	Pittsburgh Televideo Inc. Kurt G. Hess 1738 N. Highland Rd. Suite 103 Pittsburgh, PA 15241 (412) 833-6370 MII Owner	Colony Cable Dave Ribblett 169 Weybosset Street Providence, RI 02901-0969 (401)277-7852 MII Owner
TeleFox Bill Hitchcock PO Box 2069 Moorehead, NC 28557 (919) 240-7340 MII Owner	Classic Video Dave Grinaven 5001 E. Royalton Rd Cleveland, OH 44147 (216) 838-5377 MII Owner	RPC Video Ron Caird 6777 Engle Road, Ste D Middleburg Heights, OH 44130 (216) 891-5797 Dealer	WNED-TV Alan Creed 13870 Salem Alliance Rd Salem, OH 44460 (216) 337-3755 MII Owner	TELETEK Video Judy & Virgil Sipes 19275 SW Tualatin Dr Tualatin, OR 97062 (503)638-5035 MII Owner	Logographics Maria Houde PO Box 23535 Providence, RI 02903 MII User	Rhode Island
Video Perception Rick Hall 1016 S Church St Charlotte, NC 28203 (704)358-0900 MII Owner	Claybaugh Enterprises Inc David Claybaugh 2959 Layhigh Rd Hamilton, OH 45013 (513)738-0880 MII Owner	Stanley Steamer Int'l Steve Whitley 5500 Stanley Steamer Pkwy Dublin, OH 43017 (614) 764-2007x553 MII User	WTTE Russ Tschimpke 6130 Sunbury Rd. Westerville, OH 43081 (614) 895-2800 MII Owner	Vaughn Communications Portland, OR 800-772-2251	Pro Video Steve Zampana 1001 Sussex Blvd Broomall, PA 19008 (215)328-7448 Dealer	Mark Gordon 145 Hill Side Ave Providence, RI 02914 (401) 273-0412 MII Owner
Walt Kline & Assoc. Mike Laur 200 Brookstown Ave Winston Salem, NC 27101 (919)727-4900 MII User	Curtis, Inc. Dan Kerr 2025 Reading Rd. Suite 130 Cincinnati, OH 45202 800-733-2878 MII Owner	Tebxon Kevin Gatewood 91 Springside Drive Akron, OH 44313 (216) 666-4300 MII Owner	Oklahoma	Quail Video Products Bill Frazier 949 Penn Ave Pittsburgh, PA 15221 (412) 243-1300 Dealer	Quail Video Products Brian Nee 949 Penn Ave Pittsburgh, PA 15221 (412) 243-1300 Dealer	Narragansett TV William Hague 25 Catabore Blvd E Providence, RI 02920 (401)438-3317 MII Owner
WECT Wayne Tiner 322 Shipyards Blvd Wilmington, NC 28401 (919)791-8070 MII Owner	Horizon Production, Inc. Bill Jacobs 2321 Kemper Ln Cincinnati, OH 45206 (513) 559-0550 MII Owner	TW Teleproductions, Inc. Tom Whaley 514 Penn Ave Sandusky, OH 44870 (419)621-0602 MII Owner	Barrister Studios Phil Atkinson 4303 S Mingo Ste A Tulsa, OK 74146 (918)663-7700 MII Owner	Action Duplication Craig Kuprowsk 555 North Lane, Suite 5075 Conshocken, PA 19428 MII User	Reel Video Productions Mark Johnson 300 Roosevelt Ave Holidaysburg, PA 16648 (814)695-8054 MII Owner	WPRI Jim Costa 25 Catamore Blvd E Providence, RI 02914 (401) 438-7200 MII Owner
WFXI-TV Gordon Becton PO Box 2069 Moorehead, NC 28557 (919) 240-0888 MII Owner	Image Video Teleproduction Mike Tonges 6755 Freedom Ave, NW North Canton, OH 44720 (216) 494-9303 MII Owner	Vanguard Productions Jerry Beck 7020 Huntley Rd Columbus, OH 43229 (614) 436-4610 MII Owner	KJRH Vic Turner 3701 S. Peoria St Tulsa, OK 74105 (918) 743-2222 MII Owner	Allen Organ Company Clark Ferguson 150 Locust St Macungie, PA 18062 (215) 966-2202 MII Owner	Reel Video Productions Mark Johnson 300 Roosevelt Ave Holidaysburg, PA 16648 (814)695-8054 MII Owner	WPRI Mark Gordon 25 Catamore Blvd E Providence, RI 02914 (401) 438-7200 MII Owner
W.H. Platts Company Brooks Platts 234 Meacham street Charlotte, NC 28203 (704) 332-9053 Dealer	Industrial Video John Bank 1601 N. Ridge Rd E. Lorain, OH 44055 (216) 233-4000 Dealer	Video Components 12117 Berea Rd Cleveland, OH 44111-1625 (800) 899-8363 Dealer	Teleproduction Unlimited Frank Laughlin 5820 South 129th East Ave Tulsa, OK 74134-6705 (918) 252-2909 MII Owner	Ascension Video Jim Boda 48 A St. Northumberland, PA 17857 (717) 473-9733 MII Owner	Reel Video Productions Mark Johnson 300 Roosevelt Ave Holidaysburg, PA 16648 (814)695-8054 MII Owner	Reel Video Productions Mark Johnson 300 Roosevelt Ave Holidaysburg, PA 16648 (814)695-8054 MII Owner
WJZY Ed McKay PO Box 668400 Charlotte, NC 28266-8400 (704) 398-0046 MII Owner	Intl Video Center Fadi Kdayai 2528 Edgewood Rd. Cleveland Heights, OH 44106 (216)321-1440 MII Owner	Video Duplication Services Pete Stock PO Box 18337 Columbus, OH 43218 (800) 289-4301 MII Owner	KJRH Vic Turner 3701 S. Peoria St Tulsa, OK 74105 (918) 743-2222 MII Owner	SMI Productions Stan Mack 5100 Tilghman St. Suite 20 Allentown, PA 18104 (215)398-8200 MII User	Reel Video Productions Mark Johnson 300 Roosevelt Ave Holidaysburg, PA 16648 (814)695-8054 MII Owner	WPRI Mark Gordon 25 Catamore Blvd E Providence, RI 02914 (401) 438-7200 MII Owner
WRAL Al Dunbar 2619 Western Blvd Raleigh, NC 27606 (919) 821-8564 MII Owner	Mission Video Support Paul Klouda 1001A State Rt. 88 Garrettville, OH 44231 (216) 527-2182 MII Owner	WAKC-TV Earl Miller 853 Copley Rd Akron, OH 44320 (216) 535-7831 MII Owner	Barbie Wallace Heiman Productions Pamela Wallace 31 South Adair Pryor, OK 74361 (918) 825-6700 MII Owner	Bell Atlantic Morris Hawk 1 Parkway, 2nd Floor Philadelphia, PA 19102 (215) 466-3896 MII Owner	Reel Video Productions Mark Johnson 300 Roosevelt Ave Holidaysburg, PA 16648 (814)695-8054 MII Owner	South Carolina
WRAL Ron Tyndall 2619 Western Blvd Raleigh, NC 27606 (919) 821-8520 MII Owner	Mission Video Support Vince Sisson 10011 State Rt. 88 Garrettville, OH 44231 (216) 527-2182 MII Owner	WBNX-TV Donald Richardson 2690 State Rd Cuyahoga Falls, OH 44221 (216) 920-1019 MII Owner	Columbia Cable of OR Jim DeChant 14200 SW Brigadoon Ct. Beaverton, OR 97005 (503) 644-3188 MII Owner	Cablevision of Johnstown Jamie Reesman 120 Southmont Blvd. Johnstown PA 15905 (814) 535-6551 MII User	Reel Video Productions Mark Johnson 300 Roosevelt Ave Holidaysburg, PA 16648 (814)695-8054 MII Owner	Action Video Productions Tommy Cabanas 9 E. Parkin Mill Rd Greenville, SC 29607 (803)297-8865 MII Owner
North Dakota	UND Aerospace John Ness PO Box 8009 Grand Forks, ND 58202-8009 (701) 777-4722 MII Owner	Nordson Corporation Thomas Birns 555 Jackson Street Amherst, OH 44001 (216) 988-9411x4540 MII Owner	WEWS-TV Ed Miller 3001 Euclid Ave. Cleveland, OH 44115 (216) 431-3687 MII Owner	Hultman Media Services Gary Hultman 300 Lampy Creek Road Grants Pass, OR 97527 (503) 654-0092 MII Owner	CamCast Cable Jim Enix 11400 NE Ave Philadelphia, PA 19116 (215)961-3813 MII Owner	Greenville Technical College Michael Conet PO Box 5616 Greenville, SC 29606-5616 (803)250-8363 MII Owner
WDAY-TV Joel Aagenes 301 8th Street So. Fargo, ND 58103 (701) 237-6500 MII Owner	Ohio Bell Telephone Company John Kovach 100 Erie View Plaza, Rm 230 Cleveland, OH 44114 (216) 822-7560 MII Owner	WGBU-TV Bill Leutz Bowling Green Univ. 245 Troup St Bowling Green, OH 43403 MII Owner	KBSP Tim Mance 4923 Indian School Rd, NE Salem, OR 97305 (503) 390-2202 MII Owner	Fishing the West Kerry Brown 5484 SE International Way Milwaukee, OR 97222 (503) 654-0092 MII Owner	Comtel Instruments Sandy Riscoe #9 Parkway Ctr Ste 180 Pittsburg, PA 15220 (412)922-5720 MII Owner	Prime Cuts Productions Lenny Spear 247 Riverland Dr James Island, SC 29412 (803)762-0719 MII Owner
				Grocery World-Wide Brad Gentile 1565 Buchanan Trail East Shady Grove, PA 17256 (717) 597-8121 MII Owner	Tape Supplier	Sound & Images Fess Shelton PO Box 26895 Greenville, SC 29616 (803)288-8400 MII Owner

Total Audio Visual Services	Brentwood Music Inc	Aestheticians Int'l Video Inc.	J Darrell Kirkley Inc.	Pro Line Video Skip Holcombe	DCE Marketing	Word Perfect Corp.
Allan Dox	Ricky Blau	Ron Renee	Darrell Kirkley	4778 Research Dr	Toni Smith	Scott Myler
1 Winsor Cove	316 Southgate Ct	3606 Prescott Ave Apt C	11078 Morrison	San Antonio, TX 78240	University of Utah	1555 N. Technology Way
Columbia, SC 29223	Brentwood, TN 37027	Dallas, TX 75219-2151	Dallas, TX 75229	(512) 690-1234	2167 Annex Bldg	Orem, UT 84057
(803) 788-1333			(214) 243-0013	MII Owner	Salt Lake City, UT 84112	(801) 228-4900
Dealer						MII Owner
Video South Productions	Linden Communication Group	Audio Visual Productions	Siam Satellite-TV	KBYU-TV	Xactware Inc.	
David Haskell	Michael Stevenson	Louis Saldana	Mandonsin Katija Ari	C-302 HFAC BYU	Jim Loveland Jr.	1555 N. Technology Way
105 Cypress Plaza	17 W. Pontotoc Suite 207	1801 Nickerson	7306 Logging Tr	Provo, UT 84602	313 E 1200 South,	Orem, UT 84058
PO Box 2249	Memphis, TN 38103	Austin, TX 78704	Humble, TX 77346	(801) 378-3551	Suite 101	(801) 226-2251
Myrtle Beach, SC 29578	(901) 523-0506	Christian Video Ministries	MII User			
(803) 236-3030	MII User	J.D. Dunson				
MII Owner		HCR 2				
Walton Productions	Miles & Associates	Beeville, TX 78102	South Plains College	KBYU-TV	Vermont	
Stan Walton	John Miles	(512) 358-3416	Billy Alonzo	Bob Gillman		
158 Cannondale Rd.	MII Owner	MII Owner	1401 South College Ave	C-302 HFAC BYU	Iris Multimedia	
Columbia, SC 29210			Leeland Ohlhausen	Provo, UT 84602	Robert Logsdan	
(803) 356-4880			PO Box 5309	(801) 378-3551	PO Box 726	
MII Owner			Abilene TX 79608		Burlington, VT 05402	
WBTW	McKee Foods Corp.	(915) 695-2777	MII Owner		(802) 865-9560	
Doug Carter	Tom Hunter, Mgr.	KTSM-TV	Stillpoint Productions	MII Owner	MII User	
PO Box 100530	AV Division	Andrew Kizuka	Robert Castaldo			
Florence, SC 29501	10260 McKee Rd	272 Shadow Mt 59	706 W. Main St			
(803) 662-1565	Box 750	El Paso, TX 79912	Arlington, TX 76013			
MII Owner	Collegegate, TN 37315	(915) 532-5421	MII User			
W.H. Platts Company	Design Comm Group	KTSM-TV	Texas A & M University	KBYU-TV	Multi-Dimensional Media Svcs	
Billy Platts	Michael Walters	Gregg Devision	Bob Matey	Bob Gillman	Loran Swinson	
710 King Street	206 Brocton	801 N. Oregon St.	Video Lab	C-302 HFAC BYU	9127 South 255 West	
Charleston, SC 29403	Victoria TX 77904	El Paso, TX 79902	Kyle Field	Provo, UT 84602	Sandy, UT 84070	
(803) 723-7604	(512) 575-4952	(915) 532-5421	College Station, TX	(801) 378-3551	MLM Studios	
Dealer	MII User	MII Owner	MII Owner		Michele Moysie	
<b>South Dakota</b>	<b>Shop At Home Network</b>	<b>KTSM-TV</b>	<b>Texas A &amp; M University</b>	<b>KBYU-TV</b>	<b>MLM Studios</b>	<b>MLM Studios</b>
Department of Ag Communications	Dennis Wilson	Gregg Devision	Bob Matey	Bob Gillman	Box 147 RFD2	Box 147 RFD2
Stuart Fedt	P.O. BOX 12600	801 N. Oregon St.	Video Lab	C-302 HFAC BYU	West Brattleboro, VT. 05301	West Brattleboro, VT. 05301
PO Box 2231, SDSU	(615) 688-0300	El Paso, TX 79902	Kyle Field	Provo, UT 84602		
Brookings, SD	MII Owner	(915) 532-5421	College Station, TX	(801) 378-3551		
(605) 688-4307		MII Owner	MII Owner			
MII User						
KSFY	Sifford Video	KTSM-TV	Texas Department of Public Safety	LDS AV		
Doug Loos	Lawson Turk	Rick Villardell	Gene Henderson	Peter Unwin		
300 N. Dakota Ave.,	121 Lyle Ln	801 N. Oregon St.	Media Production Unit	A/V Dept.		
Suite 1000	Nashville, TN 37210	El Paso, TX 79902	PO Box 4087	50 East North Temple		
Sioux Falls, SD 57102	(800) 251-1009	(915) 532-5421	Austin, TX 78773-0001	Salt Lake City, UT 84150		
MII Owner		MII Owner	(512) 465-2217	MII Owner		
KSFY	Video Ideas	KXTV-TV	Texas Education Agency	Options, Inc.		
Eugene Schultz	4762 Highway 58	Harold Nash	Ernesto Mejia	Gary Dantis		
300 N. Dakota Ave.,	Surf G	3900 Harry Hines Blvd	1701 N Congress Ave	970 East 3300 South, Suite 3		
Suite 1000	Chattanooga, TN 37416	Dallas, TX 75201	Austin, TX 78701-1494	Salt Lake City, UT 84106		
Sioux Falls, SD 57102	(615) 894-2677	(800) 880-9400x218	(512) 463-9054	(801) 467-7421		
MII Owner	MII Owner	Dealer/Repair Center	MII Owner			
KSFY	WMC-TV	KXXV	Texas Education Agency	Scott Nelson Productions		
Eugene Schultz	Mike Schwartz	Jerry Copeland	Ernesto Mejia	Scott Nelson		
300 N. Dakota Ave.,	1960 Union Ave.	PC Box 2522	1701 N Congress Ave	5006 S. Fairbrook		
Suite 1000	Memphis, TN 38104	Waco, TX 76702	Austin, TX 78773-0001	Holiday, UT 84117		
Sioux Falls, SD 57102	(605) 336-1300	(915) 754-2525	(512) 463-2217	(801) 272-5428		
MII Owner	MII Owner	MII Owner	MII Owner	MII Owner		
KSFY	WMC-TV	KXXV	The University of Texas Health Science Center	Options, Inc.		
Eugene Schultz	Mike Schwartz	Mike Jugent	Sam Dement	Gary Dantis		
300 N. Dakota Ave.,	1960 Union Ave.	PO Box 2522	Television Production Services	970 East 3300 South, Suite 3		
Suite 1000	Memphis, TN 38104	Waco, TX 76702	7703 Floyd Curl Dr	Salt Lake City, UT 84106		
Sioux Falls, SD 57102	(605) 336-1300	(817) 754-2525	San Antonio, TX 78284	(801) 467-7421		
MII Owner	MII Owner	MII Owner	(512) 567-2220	MII Owner		
South Dakota Public Broadcasting	Envision Multimedia	KXXV	The University of Texas Sports	Scott Nelson Productions		
Wayne Nelson	a Bembart Enterprise, Inc.	Mike Jugent	Mike Arias	Mike Arias		
PO Box 5000	Keith Rogers	PO Box 2522	Belmont Hall	Bert Alvey		
Vernon, SD 57069	9337-B Katy Freeway	Waco, TX 76702	RM 224C	180 East 21st Sout		
(605) 677-5861	Suite 308	(817) 754-2525	Austin, TX 78713	Salt Lake City, UT 84115		
MII Owner		MII Owner	(512) 471-6826			
South Dakota Public Broadcasting	WMC-TV	KXXV	The University of Texas Sports	TV Specialists		
Mike Johnson	Perry Cain	Lou Strowger	Mike Arias	Bert Alvey		
PO Box 5000	1960 Union Ave.	PO Box 2522	Belmont Hall	180 East 21st Sout		
Vernon, SD 57069	Memphis, TN 38104	Waco, TX 76702	RM 224C	Salt Lake City, UT 84115		
(605) 677-5861	(901) 726-0555	(817) 754-2525	Austin, TX 78713			
MII Owner	MII Owner	MII Owner	(512) 471-6826			
South Dakota Public Broadcasting	World Class Productions	KXXV	The University of Texas Sports	The Valley Channel		
Mike Johnson	Frank Weeks	Mike Jugent	Mike Arias	Earl Rouse		
PO Box 5000	1300 East 9th Ave	PO Box 2522	Belmont Hall	426 N 400 E		
Vernon, SD 57069	Johnson City, TN 37601	Waco, TX 76702	RM 224C	Logan, UT 84321		
(605) 677-5861	(615) 928-5733	(817) 754-2525	Austin, TX 78707	(801) 752-7537		
MII Owner	MII Owner	MII Owner	(713) 890-8364	MII User		
WZTV	Foley's Video Dept.	Light Ministries	MII User			
South Dakota Public Broadcasting	Steve Hemphill	Charlene Collins				
Mike Johnson	Video Dept.	PO Box 6107				
PO Box 5000	1100 Main St	Houston, TX 77067				
Vernon, SD 57069	Houston, TX 77002	(713) 690-6545				
(605) 677-5861	(713) 651-7153	MII Owner				
MII Owner						
WZTV	Four M. Video, Inc.	Legal Media Center				
Ed Mudatt	E.F. Monrill	Kevin McInturff				
631 Mainstream Dr	1610 N H 35	4151 SW Freeway Suite 715				
Nashville TN 37228	San Marcos, TX 78666-6712	Houston, TX 77027				
(615) 441-1717		(713) 963-0397				
MII User		MII Owner				
<b>Texas</b>	Fuji Photo Film	On Location Video Services				
Accelerated Christian Education	Bob Sullivan	Mal Rainier				
Don Gray	1628 West Crosby Road	PO Box 35657				
2600 Ace Lane	Suite 100	Houston, TX 77035				
Lewisville, TX 75067	Carrollton, TX 75006	(713) 728-1020				
(214) 315-1776	(214) 466-9200	MII Owner				
MII Owner						
Accelerated Christian Education	Hatikvah Ministries	Pecan Video				
Vincent Smith	Brian Jones	Dan Cary				
2600 Ace Lane	2437 Bay Area Blvd, Ste. 143	2254 Ravenwood Rd				
Lewisville, TX 75067	Houston, TX 77058	Grapevine, TX 76048				
(214) 315-1776	(713) 280-2480	(817) 573-6800				
MII Owner		MII Owner				
Accent Audio/Video Inc.	Highland Park High School	Project Video				
Robert Beene	Steve Wilkes	Gary Brewton				
13616 Neuron Rd	Media Dept.	PO Box 5850				
Dallas, TX 75244	4220 Emerson St	Beaumont, TX 77726				
(214) 458-0501	Dallas, TX 75205	(512) 837-2000				
Dealer	(214) 453-4800	MII Owner				
Accent Audio/Video Inc.	Service & Duplication	Pro Line Video				
Ralph Luke	Mark Faulstich	Jim McConnell				
13616 Neuron Rd	2617 Bissonnet	2601 McHale Ct. #140				
Dallas, TX 75244	Houston, TX 77005	Austin, TX 78758				
(214) 458-0501	(713) 524-1956	(512) 837-2000				
Dealer		MII Owner				
Accent Audio/Video Inc.	ISDL	Pro Line Video				
Ralph Luke	Priya Desai	Terry Nixon				
13616 Neuron Rd	400 Banana Rd	2601 McHale Ct. #140				
Dallas, TX 75244	Austin, TX 78737	Austin, TX 78758				
(214) 458-0501	(512) 288-7180	(512) 837-2000 x22				
Dealer		MII Owner				
Astro Audio Visual Inc.		DCE Marketing				
Ed Corbett		Kenneth Foster				
7501 North Shore Drive		University of Utah				
Knoxville, TN 37919		2167 Annex Bldg				
(615) 691-7551		Orem, UT 84057				
Dealer/Owner		(801) 581-5588				
		MII Owner				

Creative Teleproductions	Petrel Publishing	Union Theological Seminary	Lon Gibby Productions	AV Media Services	Camera Corner Inc.	Reimers Photo Material Co.
Bruce Braun 61 Arrowhead Drive Lynchburg, VA 24502 (804)239-3752 MII Owner	Gene Bjerke 312 Cary st Williamsburg, VA 23185 (804)229-7667 MII User	John Coffman Media Services Dept. 3401 Brook Rd Richmond, VA 23227 (804)278-4330 MII Owner	John Gibby East 113 Magnesium Spokane, WA 99208 (509)467-1113 MII Owner	Jim Cornett 615 9th St Ste 604 Box 2 Huntington, WV 25701	Earl Neville 529 N. Monroe St. Green Bay, WI 54301 Dealer	Dan Fritz 300 E. Bay Milwaukee, WI 53207 MII Owner
Department of Justice	Philip Morris USA	Video Services, Inc.	Mountain View TV	Consolidated Media Systems	Michael Bena	Studio Gear
Dale Linden Bldg 27958A Quantico, VA 22135 MII Owner	Carmen Inge P.O. Box 26603 Richmond, VA 23261 (804) 274-3721 MII Owner	Jim Howell 8604 Staples Mill Rd., #104 Richmond, VA 23228 (804) 261-9304 Repair	Anthony Evans 1500 SE Blaumont Dr Vancouver, WA 98684 (206) 253-2988 MII Owner	Larry Cox PO Box 649 Scott Depot, WV 25560 Supplier	2976 Albert Dr PO Box 54311 (414) 431-2555 MII User	Robert Wiese 126 N Jefferson st Milwaukee WI 53202 (414)225-3777 MII User
Department of Justice	Philip Morris USA	Virginia Baptist Board	National Videotape Co.	E.I. Dupont	Centercom	Universal Production Int'l
Noel Herold Bldg 27958A Quantico, VA 22135 MII Owner	Jeff Bigham P.O. Box 26603 Richmond, VA 23261 (804) 274-3721 MII Owner	Glenn Starling P.O. Box 8568 Richmond, VA 23226 (804) 672-2100 MII Owner	Marie Scimeca 4200 23rd Ave W Seattle, WA 98199 Supplier	Jack Green 901 W. Dupont Ave. Belle, WV 25015 (304) 357-1835 MII Owner	Bob Harmon 5727 W. Hemlock Street Milwaukee, WI 53223 (414) 353-2001 MII Owner	Bob Kames, Jr. 4415 W. Forest Home Ave Milwaukee, WI 53219 (414) 321-0874 MII Owner
Empire Video	Philip Morris USA	The Whitlock Group	PS Media Video Productions	Seneca Communications Inc.	C.F. Struck Corp.	University of Wisconsin
Robert Rositzke 3412 Ramsgate Ter. Alexandria, VA 22309 (703) 360-6623 MII User	Mark Richer 1320 Braddock Place Alexandria, VA 22314 (703) 739-5471 MII Owner	Kevin Thompson 230 Clearthead, Suite 103 Norfolk, VA 23462 (804) 622-2006 Dealer	Rich Kraemer PO Box 4005 Tumwater, WA 98501 (206) 786-1686 MII Owner	Richie Sizemore PO Box 460 Dunbar, WV 25064-0460 (304) 766-8740 Dealer	Charles F. Struck PO Box 307 W51-N545 Struck Ln Cedarburg, WI 53012 (414)377-3300 MII Owner	Bagg Football 1440 Monroe St. Madison, WI 53711 MII Owner
Evening Productions	Public Broadcasting Service	WRLH-TV	Professional Video & Tape	Spectra Media, Inc.	David Larson Productions	Vaughn Duplication Services
Victoria Eves PO Box 2065 Falls Church, VA 22042 MII User	Mark Richer 1320 Braddock Place Alexandria, VA 22314 (703) 739-5204 MII Owner	Eldon Brown 1925 Westmoreland St Richmond, VA 23230 MII Owner	Darrel Colbert 917 134th St S.W. ste. A8 Everett, WA 98204 (206) 743-8811 MII Dealer	Gary Simons 2410 Woodland Dr South Charleston, WV 25303 (304)744-7725 MII Owner	David Larson 5910 N. Lilly Road Menomonee Falls, WI 53051 (414) 252-4122 MII Owner	Tom Brunhart 700 West Michigan Ave, Ste 150 Milwaukee, WI 53233 (414)266-6511 MII Owner
Fairfax Hospital Media Center	Public Broadcasting Service	WVPT-TV	Puget Sound Power & Light Company	West Virginia University	DVS Video Productions	VIDTEK
Debbie Gregory 2832 Juniper St Fairfax, VA 22031	Keith Ellsworth 1320 Braddock Place Alexandria, VA 22314 (703) 739-5204 MII Owner	John Hodges 298 Port Republic Rd Harrisonburg, VA 22801 (703)434-5391 MII Owner	Charles Nishida PO Box 97034 OBC-09W Bellevue, WA 98009-9734 (206) 454-6363 x3231 MII Owner	Dept. Radio & TV RT 10 Box 304B Ramada Rd Morgantown, WV 26506 MII Owner	Doug Cooper 1615 Henderson Beloit, WI 53511	James Lillis 9235 W. Capital Dr Milwaukee, WI 53222 (414) 466-7488 MII Owner
The Family Channel	Public Broadcasting Service	WVPT-TV	Seabird Video	WOAY-TV	Eaton Corporation	Wausau Insurance
Russ Murphy 1000 Centerville Turnpike Virginia Beach, VA 23463 (804) 523-7874 MII Owner	Keith Ellsworth 1320 Braddock Place Alexandria, VA 22314 (703) 739-5204 MII Owner	Eldon Brown 1925 Westmoreland St Richmond, VA 23230 MII Owner	Joshua Gordon 1970 63rd Lane N.E. Seattle, WA 98155 (206) 483-8919 MII Owner	RTE 16 South Oak Hill WV 25901 (304) 469-3361 MII Owner	Jim Heise 4201 N. 27th St Milwaukee, WI 53216 (414) 449-6216 MII Owner	Paul Hunsanger The Westwood Conference Center 1800 W. Bridge St. Wausau, WI 54401 (715)847-7772 MII Owner
Garces Communications	Reed Film & Video	Zack Burkett Productions	TDS Mediquest	WVAH-TV	Excel Communications	Wausau Insurance
Rolando Garces PO Box 3262 Reston, VA 22090 MII User	Lloyd Reed 9493A Silver King Ct Fairfax, VA 22031 (703) 385-5830 MII Owner	Zack Burkett 14162 Marquis Rd Unionville, VA 22567 MII User	Wayne Dyness 11123 SE 208th St. Kent WA 98031 (206)852-1074 MII User	Raymond Beckner 11 Broadcast Plaza Hurricane, WV 25256 (304) 757-0011 MII User	Jim Dorman 3487 N. 124th St Brookfield, WI 53005 (414)786-0686 MII Owner	Steve Brecker 333 W. Mifflin St. Madison, WI 53703 (608) 258-9644 MII Owner
Gardy-McGrath (Int'l) Inc.	Roanoke Memorial Hospitals	WVPT-TV	Zion Systems	WYVN	Fistar Corporation	Worthywhite Films
Dave Gardy 1950 Roland Clarke Pl. Suite 100 Reston, VA 22091 (703) 620-6000 MII Owner	Edward Hamilton Audio/Visual Ed PO Box 13367 Roanoke, VA 24033 (703)981-7673 MII Owner	Richard Hiett 1361 Lincolnshire Dr. Harrisonburg, VA 22801 (703) 433-7700 MII User	Richard Hiett 1970 63rd Lane N.E. Seattle, WA 98155 (206) 483-8919 MII Owner	Raymond Beckner 11 Broadcast Plaza Hurricane, WV 25256 (304) 757-0011 MII User	Frank Datzler 777 East Wisconsin Ave. Milwaukee, WI 53202 (414) 765-6228 MII Owner	Steve Brecker 333 W. Mifflin St. Madison, WI 53703 (608) 258-9644 MII Owner
George Mason University	Russell & Associates	WVPT-TV	TDS Mediquest	WVAH-TV	Fraser Orton Productions	WYOU
Susan Kehoe 4400 Univ. Drive, MS IF3	Sam Russell P.O. Box 877 Manion, VA 24354 (703) 783-2251 MII User	PO Box 205 College Place, WA 99324 (509)529-9149 MII User	Wayne Dyness 11123 SE 208th St. Kent WA 98031 (206) 543-9023 Media Center	Wayne Dyness 11123 SE 208th St. Kent WA 98031 (206) 543-9023 Media Center	Dennis Fraser 2150 Memorial Dr., Suite 212 Green Bay, WI 54303 (414) 494-6150 MII Owner	Frank Maiiale 1619 Monroe St. Madison, WI 53711-2021 (608) 258-9644 MII Owner
Gingerbread Productions	Sallie Mae	WVPT-TV	University of Washington	WYVN	Image Makers Advertising	WYOU
1323 Shepard Dr. Sterling, VA 22170 (703)450-7722	Charlie Hite 200 Fairbrook Dr Hendon, VA 22070 (703) 834-5737 MII Owner	PO Box 61025 Seattle, WA 98121 MII Owner	Al Ross 8022 27th NE Seattle, WA 98115-4633 (206) 543-9023 Media Center	Bill Hoffman 1 Discovery Pl Martinsburg, WV 25401 (304) 267-0660 MII Owner	John Wittek 740 North Pilgrim Pkwy Elm Grove, WI 53122 (414) 783-1709 MII Owner	Frank Maiiale 1619 Monroe St. Madison, WI 53711-2021 (608) 258-9644 MII Owner
C. Mark Guenther	Bristol Productions	WVPT-TV	University of Washington	WYVN	Image Makers Advertising	KCWC TV
7529 McWhorter Pl. #303 Annandale, VA 22003 (703) 941-6943 MII User	Karl Schmidt 2401 Bristol Court SW Olympia WA 98502 (206) 754-4260 MII Owner	Jerry Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Acheson 3407 Victory Ave. Racine, WI 53405 (414) 634-2050 MII Owner	Bill Hoffman 1 Discovery Pl Martinsburg, WV 25401 (304) 267-0660 MII Owner	John Wittek 740 North Pilgrim Pkwy Elm Grove, WI 53122 (414) 783-1709 MII Owner	Gregory Ray 2660 Peck Ave. Riverton, WY 82501
Health S. Medical Center	Digital Reality	WVPT-TV	Anim8	WYVN	KCWC TV	WYOU
Chris Wheeler 7700 Parham Rd. Richmond, VA 23294 (703) 527-5960 MII Owner	Paulo DeAndrade 13800 SE 79th Dr. Renton, WA 98059-3200 (206) 227-5783 MII Owner	University of Washington	John Acheson 3407 Victory Ave. Racine, WI 53405 (414) 634-2050 MII Owner	John Acheson 3407 Victory Ave. Racine, WI 53405 (414) 634-2050 MII Owner	Dennis Fraser 2150 Memorial Dr., Suite 212 Green Bay, WI 54303 (414) 494-6150 MII Owner	Frank Maiiale 1619 Monroe St. Madison, WI 53711-2021 (608) 258-9644 MII Owner
Network Video Services	KEPR	WVPT-TV	WYVN	WYVN	Fistar Corporation	WYOU
Chuck Fazio 5600 B General Washington Dr. Alexandria, VA 22312 (800) 289-3827	Don Eckis PO Box 2648 Richlands, VA 24641 (703) 964-2555 x552 MII Owner	PO Box 61025 Seattle, WA 98121 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	Frank Datzler 777 East Wisconsin Ave. Milwaukee, WI 53202 (414) 765-6228 MII Owner	Steve Brecker 333 W. Mifflin St. Madison, WI 53703 (608) 258-9644 MII Owner
Norfolk Naval Shipyard	KHQ	WVPT-TV	WYVN	WYVN	Fraser Orton Productions	WYOU
A/V Department Bill Whifford Bldg 33 Code 120 Portsmouth, VA 23709 (804) 396-3408 MII Owner	Don Carmicheal P.O. Box 8088 Spokane, WA 99203 (509) 448-4600 MII Owner	PO Box 61025 Seattle, WA 98121 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	Steve Brecker 333 W. Mifflin St. Madison, WI 53703 (608) 258-9644 MII Owner
Orthopaedic Research of VA	KHQ	WVPT-TV	WYVN	WYVN	Image Makers Advertising	WYOU
Chris Wheeler 7660 Parham Rd. Richmond, VA 23294 (804) 527-5960 MII Owner	Jeff Hite PO Box 8088 Spokane, WA 99203 (509) 448-4655 MII Owner	PO Box 61025 Seattle, WA 98121 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	Steve Brecker 333 W. Mifflin St. Madison, WI 53703 (608) 258-9644 MII Owner
Park Avenue	KHQ	WVPT-TV	WYVN	WYVN	Image Makers Advertising	WYOU
Teleproductions	Michael Kostov 221 First Ave, Ste 120 Seattle, WA 98119 (206)285-2797 MII Owner	PO Box 61025 Seattle, WA 98121 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	Steve Brecker 333 W. Mifflin St. Madison, WI 53703 (608) 258-9644 MII Owner
David Townsell 3500 Maryland Ct Richmond, VA 23233 MII Owner	Kramer Video 2550 Huntington Ave Suite 205 Alexandria, VA (703)329-0102 MII User	PO Box 61025 Seattle, WA 98121 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	Steve Brecker 333 W. Mifflin St. Madison, WI 53703 (608) 258-9644 MII Owner
Ultra-Sound A/V	Kramer Video	WVPT-TV	WYVN	WYVN	Image Makers Advertising	WYOU
Matt Bright 10108 Timberlake Rd Lynchburg, VA 24502 (804) 237-1549 MII Owner	Tom Kramer PO Box 2246 Seattle, WA 98122 (206) 322-6555 MII Owner	PO Box 61025 Seattle, WA 98121 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	John Morris 33 Kane Hall, DG-10 Seattle, WA 98195 (206) 543-9923 MII Owner	Steve Brecker 333 W. Mifflin St. Madison, WI 53703 (608) 258-9644 MII Owner

Grant McEwan College Media Services Ted Zazula Bldg A Room 383 10700 - 104 Ave. Edmonton, Alberta T5J 4S2	Ontario ADCOM Electronics Gary McKoen 310 Judson St. Unit #1 Toronto, Ontario M8Z 5T6 MII Dealer	MBST Lifetime Prod. 5 DeWitt Court Markham, Ontario L3P 3Y4	Unique Video Production Bob Jackson 2552 Howard Ave. Windsor, Ontario N8X 3V9	Le Studio du Centre-Ville Michel Blhodeau 1108 rue Bishop Montreal, Quebec H3G 2E3	STV - Regina Ron Mittelholz 370 Hoffer Drive Regina, Saskatchewan S4N 7A4
Lethbridge Cabetnet Mark Doran 1232 - 3 Ave. South Lethbridge, Alberta T1J 0J9	Advanced Video Prods Mark Geier 28 Dywin Ct. Cambridge, Ontario N1R 7A4	MacLean Hunter Cable Manny Floriano Parkdale Studio 47 Lisgar St Toronto, Ontario M6J 3T4	University of Toronto Ron Beardon Media Centre 563 Spadina Ave. Toronto, Ontario M5S 1A1	NGW Communications Charles Warren 2366 Galvani St. G1N 4G4 MII Dealer	STV - Saskatoon Len Virog 218 Robin Crescent Saskatoon, Saskatchewan S7L 7C3
Montage Communications Michael Prysunka Lower Floor 611-10th Ave. S.W. Calgary, Alberta T2R 0B2	AEC Computers Jann Teng R.R. #7 Providence Line Peterborough, Ontario K9J 6X8	MacLean Hunter Cable Merl Zoerbe 80 Worcester Rd Etobicoke, Ontario M9W 1K7	University of Windsor Tom Fuerth Communications Dept. Windsor, Ontario N9B 3P4	Ordigraphe Inc Denis Rivard 3740 Boul. Matte Brossard, Quebec	STV - Saskatoon Brian Taylor 218 Robin Crescent Saskatoon, Saskatchewan S7L 7C3
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Shaw Cablesystems Gene Sydor 7633-50 Street Edmonton, Alberta T6B 2W9	Asian Television Network Prakash Naidoo 130 Pony Dr. Newmarket, Ontario L3Y 7B6 (416) 836-6460	MacLean Hunter Cable Andrew Ruhl 33 Norwich Street East Guelph, Ontario N1H 2G7	Meta Media Productions Paul Downey 590 Jarvis St 6th Floor Toronto, Ontario M4Y 2J5	Productions du Deluje Jean Perner 797 Valquette Verdun, Quebec H4H 2E1	Caribbean
<b>British Columbia</b>	Asian Television Network Shan Chandrasekar 130 Pony Dr. Newmarket, Ontario L3Y 7B6	Municipality of Toronto Community Services Dept Paul Downey 590 Jarvis St 6th Floor Toronto, Ontario M4Y 2J5	Vid Vid Video Blake Robson 17 Easton Road Brantford, Ontario N3P 1J4	Projet IMAGE Jose Forest 4563, Chemin de la Reine Marie Montreal, Quebec H3W 1W5	Caribbean Communications Net Stephen Seadanish 35 Independence Square Port of Spain, Trinidad (809) 627-7463 MII User
Marine Video Peter Sara 1955 Wylie St. Vancouver, B.C. V5Y 3N7	Asian Television Network Don Atchison 1589 Drake Ave Ottawa, Ontario K1G 0L7	North York School Board Neville Dean 85 Peckham Ave. North York, Ontario, N2R 2V4	North York School Board Neville Dean 85 Peckham Ave. North York, Ontario, N2R 2V4	SportAction Video 2523 Boul. Versant Nord Suite 204 St. Foy, Quebec G1N 4P4	Video Associates Limited Timmy Mora 7 Bergerac Rd. Maraval Trinidad, West Indies (809) 628-3537 MII Owner
Shaw Cable Sergio Contreras 1471 Pemberton Ave. North Vancouver, B.C. V7P 2R9	Axiom Productions Gerry Matthews 69 Raymond Street Guelph, Ontario N1H 3S4	Ontario College of Art George Dougherty 100 McCaul Street Toronto, Ontario M5T 1W1	Ontario College of Art Michael Page 100 McCaul Street Toronto, Ontario M5T 1W1	Prince Edward Island J.W. Woods Electronics Bill Woods 17 Buell Rd Mermaid, RR.5 Charlottetown, PEI C1A 7J8	<b>Mexico &amp; Central America</b>
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Shaw Cable Peter Williams 1471 Pemberton Ave. North Vancouver, B.C. V7P 2R9	CBC - Windsor Rick Baillargeon 825 Riverside Drive W. Windsor, Ontario N9A 1K7	Queens TV Richard Webb Queens University Kingston, Ontario K7L 3N6 MII User	Island Cablevision Wendall Ellis 100 Cable Court Charlottetown, PEI C1B 1A9	Universite de Montreal Services Audiovisuels C.P. 6128, Succ. A Montreal, P. Quebec H3C 3J7	CNI Martha F Sandoval 185 Playa Roqueta Mexico de 08830 Mexico (525) 3259085 MII User
The Videomaker Sig Poepel 2160 Van Horne Drive Kamloops, B.C. V1S 1L7	CFMT - CH. 47 Frank BrunoP 545 Lakeshore Blvd. West Toronto, Ontario M5V 1A3	Rainbow Video Concepts Gil Drees Unit 203 607 Heritage Dr. Kitchener, Ontario N2B 3J2	Concept Videoscope Claude Pdpin 100 bd Antonio Barrette Joliette, Quebec J6E 1E5	Universite de Montreal Services Audiovisuels Jean St. George C.P. 6128, Succ. A Montreal, P. Quebec H3C 3J7	CNI Alejandro Busquets Galeana 100 La Joya Tlapan Mexico de 14090 Mexico (525) 3259085 MII User
VIDCOM Michael Olelock 3-1854 West First Ave. Vancouver, B.C. V6J 1V5	CFMT - CH. 47 Brian Hering 545 Lakeshore Blvd. West Toronto, Ontario M5V 1A3	Corona Communication Doug Reynolds 500 Barrydowne Rd. Sudbury, Ontario P3A 3T3	Ryerson Poly Technical Brad Fortner 350 Victoria Street Toronto, Ontario M5B 2K3	CKSH-TV Marcel Aganier 340 Boul. Industriel Sherbrooke, Quebec J1L 1Z9	<b>South America</b>
VIDCOM Bob deWaayer 3-1854 West First Ave. Vancouver, B.C. V6J 1V5	CFMT - CH. 47 Frank BrunoP 545 Lakeshore Blvd. West Toronto, Ontario M5V 1A3	Scarborough Board Alex Maropakis 52 McGrath Road Scarborough, Ontario M1S 4G5	CKTM-TV Trois Rivieres 4141 St. Jean Blvd Trois Rivieres, Quebec G9A 5G3	Universite De Sherbrooke M. A. Rousseau 2500 Boul. de l' Universite Sherbrooke PQ J1K 2R1	Imagen Satelital SA Fernan Brillante Parana 326 2 PISO Buenos Aires Argentina (541) 49-5500
<b>Manitoba</b>	CKCO-TV Joe Brenner 864 King Street West Kitchener, Ontario N2G 4E9	Sheridan College Todd Hallam Tech Services 1430 Trafalgar Road Oakville, Ontario L6H 2L1	Dodier Design M.Y. Dodier 635 Riel Ascot, Quebec J1H 5V7	Universite du Quebec a Montreal Denis Vaillancourt C.P. 8888, Succ. A Montreal, Quebec H3C 3P8	Corp Video Carrillo LTDA Jose Carrillo Calle 69 No. 144-40 (571) 312-7432 MII User
Servo Electronics Ltd. Roger Kiendl 6th Floor 138 Portage Ave. East Winnipeg, Manitoba R3C 0A1 MII Dealer	Edcom Multi Media Rich Kramer 350 Shirley Ave. Kitchener, Ontario N2B 2E1	Sheridan College Ken Walker 1430 Trafalgar Road Oakville, Ontario L6H 2L1	Hautes Etudes Commerc. Serge Larivée 5255 Avenue Decelles Montreal, Quebec H3T 1V6	Saskatchewan	CCT Broadcast Humberto Ypez Posaje Carlos Tamayo 172 Quito, Ecuador (593) 445-081 MII User
<b>Nova Scotia</b>	Edcom Multimedia William Webster P.O. Box 4324 London, Ontario N5W 5J6 MII Dealer	Soft Science Associates Ltd. Eric Harris R.R. #1 Gore's Landing, Ontario KOK 2E0	Infographie Michel Faubert 520 Landreville, Unit 1A Ile des Soeurs, Quebec H3E 1B4	Advanced Image Management Steve Shatford Suite 308 2505 11th Ave. Regina, Saskatchewan	Professional Communications Jim Sax 2914 H Miners Ave. Saskatoon, Saskatchewan S7K 4Z7 MII Dealer
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Instructor Aids, Ltd. Jim Davidson 55 MacDonald Ave. Burnside Industrial Park Dartmouth, Nova Scotia B3B 1T9 MII Dealer	Image Projection John Chyrilis 15 Capella Court Unit 109 Nepean, Ontario K2E 7X1	St. Clair College Roger Faubert 2000 Talbot Road West Windsor, Ontario N9A 6S4	Inter-Cite Video, Inc. Harold Schneider 8270 Mayrand Montreal, Quebec H4P 2C5 MII Dealer	STV - Regina Brian Sather 370 Hoffer Drive Regina, Saskatchewan S4N 7A4	STV - Regina Ron Mittelholz 370 Hoffer Drive Regina, Saskatchewan S4N 7A4
Michelin Tires Cda.Ltd Dave Titus PO Box 399 New Glasgow Pictou Cty, Nova Scotia B2H 5E6	Maximum Productions Michael Jerome 730 Cochran Dr. Markham, Ontario L3R 8E1				

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